

REPORT
OF THE
County Medical Officer of Health
For the Year ended December 31st, 1961



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Introduction

*To the Chairman and Members
of the County Health Committee*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report on the health of the administrative county of Cheshire for the year 1961.

The Registrar General's estimate of the population at mid-1961 was 923,630, that enumerated at the census during that year was 921,212. The birth rate was 17·4 per thousand population compared with that for the whole of England and Wales which was 17·6. This is the highest birth rate experienced since 1947 and in this connection it is interesting to note that the average age at marriage of females in England and Wales has dropped from 24·12 years to 22·4 years since 1946. The illegitimate births were 3·6% of the total live births. For the second time in the last two years, the stillbirth rate was below 20 per thousand live and still births and was at 19·7 as against 19·0 for England and Wales. The death rate has remained steady for some years and during 1961 was 12·2 per thousand population. Infantile mortality was the lowest on record, the number of babies dying before the age of one year per thousand live births was 17·6; the rate for the whole of England and Wales was 21·4.

Three deaths took place connected with pregnancy, childbirth and abortion. Since 1959 the perinatal mortality, the number of stillbirths plus deaths of infants under the age of one week, per thousand live and stillbirths has been recorded. This figure has shown a diminution each year since it was introduced and in 1961 it was 30·3, whilst that for England and Wales was 32·0.

Deaths from coronary thrombosis continued to increase; the ratio of males to females in the age group 45 to 64 years who had died from this cause was 4·49 to one. There was an increased incidence of death from cancer of the lungs and bronchi, this was as usual the commonest single cause of death from cancer. The number of deaths from cancer of other sites has remained approximately the same for some years. Death from motor accidents was the commonest cause of death for males between the ages of 15 and 24 years; out of 96 deaths in this age group, 39 took place as a result of motor accidents. 1961 was a heavy year for deaths from influenza and bronchitis, most of them arising within the influenza epidemic in the early months of the year.

I regret to report the death of Dr. David Tough who was originally appointed as a Tuberculosis Medical Officer in January, 1928, and was transferred to the service of the Liverpool Regional Hospital Board in 1948, after which he still retained his connection with Cheshire County Council, he had a fine clinical sense and was well liked by all his patients. The death of Dr. Birchall, Medical Officer of Health and

Divisional Medical Officer for the South-West Cheshire area occasioned great sorrow throughout his area, as besides being a first class administrator, he had, ever since his original appointment in 1939 acted as Medical Officer to the Ellesmere Port child welfare centre, where his kindly attitude and care were very much appreciated by the mothers attending. Dr. Devlin and Dr. Rose, both Ophthalmologists, also died during the year, two kindly men who gave their skill to the School Health Service. Three men, each of whom had devoted many years to the service of the County Council retired, Dr. Slater, Medical Officer of Health and Divisional Medical Officer for Mid-Cheshire, Mr. Mangan who had conducted orthopaedic clinics at Stalybridge and Dukinfield for many years, and Dr. Jacobs, whose work as Ophthalmologist in the School Health Service dated back for 40 years.

Miss Shepherd, the first Domestic Help Supervisor to be employed in the Ellesmere Port and Deeside districts also died; she had the knack of doing a difficult job with great tact, efficiency and good humour and will be greatly missed in the service.

To meet the increasing population of the county, it has been necessary to appoint two additional Assistant Medical Officers, who will commence duty at the beginning of 1963.

The work at child welfare centres continues to increase in its magnitude. 7% more attendances were registered and an additional 6% of mothers and babies consulted the doctors in attendance at the centres. New centres were opened at Newton (West Kirby), Heatley, Grange (Runcorn) and Great Boughton (Chester). An additional ante-natal centre was opened on behalf of the Chester Hospital Management Committee at Frodsham and the new clinic centre erected at Partington soon became so busy that virtually all clinic time was taken up within a few weeks of its work being commenced. A small child welfare centre at Carrington was closed when the nearby purpose-built clinic centre at Partington was opened. The close collaboration between the Consultant Paediatrician and Geriatrician at Clatterbridge Hospital on the one hand, and the County Health Services on the other, was shown by the establishment of specialist clinics at Bebington, Hoylake, Heswall and Neston. At Ellesmere Port the clinic centre, training centre for mentally sub-normal adults, ambulance station and day nursery all occupy the one large site and afford a means of concentrating all the health services for this large and growing borough at one focus. The opportunity was taken of establishing a branch County health office in the old clinic now made redundant.

Many child welfare centres are greatly helped by voluntary committees and my grateful thanks are accorded to these ladies who perform their duties so willingly and assiduously.

Attendances at ante-natal clinics also increased, both at Consultants' clinics and those attended by midwives only. The attendances at

midwives' clinics rose by as much as 28%. The regular preparation classes, at which relaxation exercises are carried out, form a most useful means of health education for expectant mothers and are now held in 29 centres; their popularity is shown by the fact that 12% more patients attended than in the previous year. The use made of the special audiology clinics attended by Sir Alexander Ewing and his staff became so great that additional clinics were commenced at Ellesmere Port and Northwich. These clinics are an example of team work as Ear, Nose and Throat Consultants and School Medical Officers also make it their business to come and discuss the future care of their deaf patients.

The Command Paper of the Minister of Health entitled "A Hospital Plan for England and Wales" has been carefully studied and the proposals to establish new district hospitals, including provision for maternity, psychiatry and geriatrics have been warmly welcomed, though with considerable regret that the closure of many small local hospitals, which have provided nursing care for patients under their own family doctor for many years, is suggested. It is indeed hoped that some means will be found to preserve these hospitals, which, in a county such as Cheshire, where the large towns are on the periphery and where considerable distances will need to be travelled to reach the proposed district general hospitals, are highly valued, not only by the general practitioners but by their patients who, whilst being patients there have the great advantage of being readily visited and having their hospital care in a homely unit. It must also not be forgotten that they act as dressing stations for minor accidents, which would otherwise overburden the accident departments of the larger hospitals. In connection with this Command Paper the local health authority prepared a comprehensive programme of development over the next ten years which will complete the efforts of the County Council to provide excellent clinic facilities, ambulance and welfare services covering the whole county.

Activity under the heading of immunisation and vaccination has been considerable and in one division over 90% of the children under the age of 15 years have now been immunised against diphtheria, in some other divisions the proportion is over 80%.

Notifications of pulmonary and non-pulmonary tuberculosis are not one half the number of those received ten years ago. Deaths from pulmonary tuberculosis (44) were the lowest recorded except for one year, 1960, when the figure was 37. There were only three deaths from non-pulmonary tuberculosis. The acceptance rate for B.C.G. vaccination over the whole county was 85%. It is interesting to note how the proportion of children who were found Mantoux positive, thereby showing evidence of having had a tuberculous infection, has decreased with modern methods of treatment and since B.C.G. vaccination became commonly used; in 1955 32% of children

tested gave a positive Mantoux reaction, by 1961 this proportion had dropped to 18% over the whole county. Tuberculin testing of school entrants was carried out in certain divisions of the county and the percentage of such children found to be Mantoux positive at the age of five years varied from 1.6% to 5.1%.

The high birth rate and the increasing population of the county have caused a disproportionately heavy case load for health visitors in certain areas, particularly because the number of visits to handicapped and aged persons is continually increasing. The work done by individual midwives has also become heavier and has been added to by 3,495 women who were discharged early from hospital whose nursing had to be completed by the county midwives. It has been calculated that no fewer than one-third of all households in the county receive the attention of the county health staff in one way or another in the course of a year.

Disposable underpads are provided through the Home Nursing Services whenever required by practitioners.

Because of the administrative expense involved in making charges for the many small items of nursing equipment and aids lent to ill and handicapped persons, the weekly hire charge for these items has been waived, leaving only a small deposit when large articles, such as hoists, beds, etc., are loaned.

Sales of welfare foods have decreased to such an extent that whilst almost all the selling points conducted voluntarily have been retained, those where paid staff are employed have been open for shorter periods whilst some of them have been closed.

In no section of the county health services has the use made by the general public, doctors and hospitals, increased more than the Mental Health Services. The additional staff of Mental Welfare Officers recruited with the coming into force of the Mental Health Act, is now insufficient and additional Mental Welfare Officers are urgently required. There is a great need for training courses for these officers, but opportunity has been taken to send two Senior Mental Welfare Officers to courses, each lasting for one year, at London and Manchester University respectively. Clerical help is provided in the mental health offices throughout the county. 20,000 copies of the county brochure on mental health have been distributed. Now that an additional psychiatric out-patient clinic has been established by the Manchester Regional Hospital Board at Sale, the whole of the county is covered, and in no case is it necessary for an unreasonable journey to be undertaken to obtain psychiatric help. In the field of mental subnormality, out-patient clinics at Cranage and Offerton House (Stockport) are conducted by both the Medical Director of Cranage Hall Hospital and the County Senior Medical Officer for Mental Health and, because both

clinical and social aspects of cases are considered together and at the same time, these clinics have been of inestimable value, particularly to parents with subnormal children living within the family. More applications for short-term care are now being received. The arrangements recently made with Cheadle Royal whereby mentally disordered persons can attend daily for industrial training, and persons employed in the sheltered workshop can receive the standard minimum wage through County Council grant have proved of great value to those attending. Although the number of mentally disordered persons benefiting from these arrangements is low at present, it is expected that more use will be made of them as time goes on.

New training centres for children and adults are in course of erection, meanwhile the junior training centres, established in hired halls, are coping with a greater age range and a larger number of severely subnormal children than had been intended, arising out of the policy of retaining the subnormal children beyond the age of 16. The position will, of course, be eased when the adult training centres are ready for occupation. The William Gibson Hostel at Wrenbury Hall is now occupied by subnormal males, some of whom are employed locally on farms, others work in the Wrenbury Hall Industries and others are transported daily to the Stoke-on-Trent adult training centre. The principle of making a payment to centres organised through the National Spastics Society, equivalent to the cost of maintaining a mentally subnormal person in a county training centre, has been developed by making the same payment in respect of children under the age of five, who though severely physically handicapped, are yet expected to attend an ordinary school. Co-operation is maintained with local branches of the National Association for Mental Health and the Society for Mentally Handicapped Children, whose assistance and interest is greatly appreciated.

The whole of the Ambulance Service is now under county control, and with the exception of the vehicles used on regular journeys to local hospitals, all vehicles are under radio control. Additional stations have been established at Tattenhall, and (by co-operation from the Urban District Council), at Sandbach. The services at Altrincham, Cheadle and Wilmslow have been moved to newly built premises at Altrincham and Cheadle Hulme where a radio control room has been established to serve that area of the county lying east of Altrincham, Cheadle and Congleton. All work of repair and servicing of vehicles is now done by county mechanics, except where work is too specialised and complicated for it to be done at an ambulance station. It was necessary to increase the operational staff to meet the effect of the 42-hour week, and in order to reduce heavy overtime payments. The awards of the Emberton Cup and McBirnie Shield have had a most

noticeable effect in raising the already high level of efficiency. An experimental week-end study course has been held at Altrincham which was so successful that it will be made a regular feature within the Ambulance Service. On this occasion lectures, talks and demonstrations were given by county medical staff, consultants and general practitioners, and incidents were organised and staged in a most realistic manner by the Altrincham branch of the Casualties Union; it would be no exaggeration to say that the men attending the course were fired with enthusiasm as a result.

More use is now being made than in previous years of the power of the County Council as a welfare authority to carry out adaptations to houses occupied by physically handicapped persons. Many persons have been helped and in one case a financial grant was given towards the erection of an additional room to provide a bed-sitting-room for a grammar school boy suffering from muscular dystrophy, and in another a grant was made towards the expense of erecting a sanitary annexe to a house occupied by two men, each of whom was crippled and unable to move except in a wheelchair. Clubs for handicapped persons are now established at six centres in the county and with the interest shown by divisional committees in this work, it is expected that more will be organised. It is felt that the principle of making such clubs, as far as possible, self-governing, is useful and that those who make use of them should themselves make a contribution.

In Cheshire the administrative principle under the National Assistance Acts is that so long as a handicapped person is living under domicillary conditions, the responsibility lies with the County Health Committee, but the County Welfare Committee, through the County Welfare Officer, is responsible for providing accommodation and care for aged persons and handicapped people in hostels. This is found a most convenient administrative arrangement, because the boundary between health and welfare activities for persons living in their own homes is often vague, and it is advantageous for handicapped persons to know that applications for help are dealt with by one person, the the Divisional Medical Officer.

Since divisional offices were established in 1948 the volume of work transacted there has increased. Examples of new activities are training centres for mentally handicapped, additional clinic centres, sale of welfare foods, B.C.G. and poliomyelitis vaccination, chiropody, handicapped persons, co-operation with general practitioners and hospital services and the gradual widening of the scope of all local health authority work. On the other hand, the Ambulance Service is now entirely centralised and sales of welfare foods have diminished. The opportunity was therefore taken of an investigation by the County Organisation and Methods Team. A procedure has been adopted whereby following the investigation, a report has been submitted to the Divisional Medical Officer as well as to headquarters, consultations have taken place in County Hall, and as a result, agreement has been

reached on all points and appropriate recommendations submitted to the divisional committees. I must express my appreciation of the tactful way in which the Organisation and Methods Team has conducted the investigations, the members of the team have been well received and have done their work with great care and detail.

An interesting development has been the establishment of a group practice surgery by the Hazel Grove practitioners on land owned by the County Council on the site where the new clinic centre, divisional office and ambulance station is being erected at Hazel Grove. This development will further assist the already co-operative relationship between the family doctors and the local health authority's services in this area.

Samples of milk are now taken three times yearly from all farms in the county selling raw milk. These are examined at the Ministry's public health laboratories for evidence of infection by brucella organisms as well as by tubercle bacilli. Approximately 6% of all these samples were found to contain brucella organisms, which, although high is an improvement on the previous year's sampling when 7.6% of samples were found to be infected. A close liaison is maintained with the Ministry of Agriculture, individual samples of milk are taken so that infected cattle may be isolated and their milk heat treated before sale to the public. An arrangement exists with the general practitioners in the county that informal notification shall be made of any persons found to be suffering from brucella infection. There is evidence, however, that this informal notification is not complete and it is considered that there are strong grounds for human brucellosis being made a notifiable disease.

The report of the investigation into environmental circumstances affecting death from coronary thrombosis between the ages of 45 and 64 years, made on the instructions of the County Health Committee, was published in the British Medical Journal for 1st September, and has been the subject of comment in the Medical Press throughout the world, as is shown by correspondence received from each of the five continents.

I wish to thank the Chairman and Members of the County Health Committee and of the Divisional Health Committees for the help and support I have unfailingly received from them during the year. My thanks are also due to the Clerk of the County Council, the County Treasurer, the County Architect and Heads of all county departments for their co-operation and assistance which has so readily been given on all occasions, and it is with the deepest gratitude that I acknowledge the loyalty, friendliness and help received from all the staff of the County Health Department, throughout the county, during the past year.

I beg to remain,

Your obedient servant,

ARNOLD BROWN.

18th November, 1962.

Staff of the Public Health Department

County Medical Officer of Health and Principal School Medical Officer	Arnold Brown, M.B., Ch.B., D.P.H.
Deputy County Medical Officer of Health	B. G. Gretton-Watson, M.A., M.B., B.Ch., D.P.H., Barrister-at-Law
Senior Medical Officer for Maternal and Child Welfare	B. M. Butters, M.A., M.B., Ch. B., D.P.H.
Senior School Medical Officer	H. Craig, L.R.C.P. & S., L.R.F.P.S.
Senior Medical Officer for Mental Health	R. A. Blyth, M.B., Ch.B., M.R.C.S., L.R.C.P.
Senior Assistant Medical Officer	N. M. E. Robertshaw, B.Sc., M.B., Ch.B., D.R.C.O.G., D.C.H.
Assistant County Medical Officers	Jessie Anderson, M.B., Ch.B., D.P.H.
	R. Cargill, M.B., Ch.B.
	Margaret Caton, M.R.C.S., L.R.C.P.
	S. Caruana, M.D., B.Sc., D.T.M. & H., D.P.H.
	Jenny Craig, M.B., Ch.B., D.P.H.
	Margaret Crosland, M.B., Ch.B.
	Hilda Dean, M.R.C.S., L.R.C.P.
	Aitolia English, M.R.C.S., L.R.C.P., M.B., B.S., D.C.H.
	Betty Hinchliffe, M.B., Ch.B.
	Barbara Jones, M.B., Ch.B.
	Janet Jone M.B., Ch.B.
	Marjorie Jukes, M.B., Ch.B., D.P.H.
	Cita Kershaw, M.B., Ch.B.
	Hilda Levis, M.R.C.S., L.R.C.P., M.B., B.S., D.P.H.
	Jessie Tough, M.B., Ch.B., D.P.H.
Divisional Medical Officers	
<i>Altrincham</i>	W. H. Parry, M.D., D.P.H.
<i>Bebington</i>	F. S. Melville, M.B., Ch.B., D.P.H.
<i>Cheadle and Wilmslow</i>	J. A. Leitch, M.B., Ch.B., D.C.H., D.P.H.
<i>Crewe</i>	D. G. Crawshaw, M.B., M.R.C.S., D.C.H., D.P.H.
<i>Deeside</i>	J. Hatton, M.D., D.P.H.
<i>Hyde</i>	W. Turner, M.B., Ch.B., D.P.H., LL.B.
<i>Macclesfield</i>	W. R. Plews, L.R.C.P. & S., D.R.C.O.G., D.P.H.
<i>Mid-Cheshire</i>	F. Seymour, M.B., Ch.B., D.P.H.
<i>Nantwich</i>	R. K. Hay, M.D., B.Ch., B.A.O., D.P.H.
<i>N. E. Cheshire</i>	T. W. Brindle, M.B., Ch.B., D.P.H.
<i>Runcorn</i>	J. L. Patterson, M.B., Ch.B., D.P.H.
<i>Sale and Lymm</i>	E. H. Gordon, M.D., B.Ch., B.A.O., D.P.H.
<i>S. E. Cheshire</i>	L. Rich, M.B., Ch.B., M.R.C.O.G., D.P.H.
<i>S. W. Cheshire</i>	W. A. Pollitt, M.R.C.S., L.R.C.P., D.P.H.
<i>Stalybridge and Dukinfield</i>	T. Holme, M.B., Ch.B., D.P.H.
County Analyst	J. G. Sherratt, F.R.I.C.
Dental Surgeons	A. F. Hely, C.B., L.D.S. (Principal).
	A. E. Allen, L.D.S., R.F.P.S.
	Edith Andrew, L.D.S.
	J. B. Andrew, L.D.S., R.C.S., B.D.S.
	J. M. Arany, M.D., L.D.S., R.F.P.S.
	M. K. Baron, L.D.S.
	Dorothy Coates L.D.S.

Dental Surgeons

Elizabeth Clark, B.D.S.
G. H. Craine, B.D.S.
Margaret Davis, B.D.S. (part-time)
D. M. Dodd, L.D.S.
Jean Hall, L.D.S., R.C.S., (part-time)
G. J. Hartley, L.D.S.
R. H. Hurst, L.D.S.
H. Jackson, L.D.S.
Lisbeth Kippen, L.D.S., D.P.D.
Irene Kurer, B.D.S., (part-time)
A. N. Leicester, B.D.S.
Morag Madgett, B.D.S.
H. P. Meed, L.D.S.
Ruth Owen, L.D.S.
H. W. S. Sheasby, L.D.S.
K. V. Shute, L.D.S.
Beryl Taylor, B.D.S.
E. J. Taylor, L.D.S.
Dorothy Walker, L.D.S.
R. S. Wood, L.D.S.

Ophthalmic Surgeons
(Part-time)

B. Boas, M.D.
J. F. Cogan, M.B., Ch.B., F.R.C.S.
W. H. G. Douglas, M.B., Ch.B., D.O.M.S.
J. D. E. Edwards, M.B., Ch.B., D.O.M.S.,
R.C.P.S.I.
A. Holmes-Smith, M.A., M.B., B.Chir.,
D.O.M.S.

Orthopaedic Surgeons
(Part-time)

E. Riley, M.B., Ch.B., D.O.M.S.
Dorothy Simmons, M.B., Ch.B.
T. Jackson, M.R.C.S., L.R.C.P.
E. M. Kupfer, M.B., B.S., F.R.C.S.
K. Marks, M.Ch., F.R.C.S.
T. McSweeney, M.B., M.Ch., F.R.C.S.
A. G. O'Malley, M.Ch., F.R.C.S.
G. T. Partridge, M.A., M.B., F.R.C.S.
R. Roaf, M.A., F.R.C.S.
G. A. Wetherell, M.B., M.Ch., F.R.C.S.
V. H. Wheble, M.A., B.M., B.Ch., F.R.C.S.

Paediatrician (Part-time)

J. D. Allan, M.D., F.R.C.P.

Ear, Nose and Throat
Surgeons (Part-time)

O. T. Taylor, M.B., Ch.B.
J. M. Kodicek, M.B., B.S., F.R.C.S.,
L.R.C.P.

Chest Physicians
(Part-time)

J. Black, M.D., F.R.F.P.S., M.R.C.P.
H. N. Bleasdale, M.B., Ch.B.
D. J. Caldwell, M.A., M.R.C.P.
A. Fleming, M.B., Ch.B., D.P.H.
A. C. C. Hughes, M.A., M.D., M.R.C.P.
P. B. Woolley, M.B., Ch.B., M.R.C.P.
E. R. Smith, M.D., Ch.B., D.P.H.
B. O'Connor, M.A., Barrister-at-Law

Chief Administrative Assistant
County Ambulance Officer
Deputy County Ambulance
Officer

R. G. Jones

County Health Inspector
Deputy County Health Inspector
Supt. Mental Welfare Officer
Superintendent of Home Nursing
Non-Medical Supervisor of
Midwives

G. E. Turner
W. Pembleton
J. M. Farrall
T. Rattray

Assistant Superintendents of
Home Nursing

Miss J. N. Vaughan
Miss M. A. Reynolds

Miss K. Heron
Miss M. L. Plant

HEALTH VISITORS & SCHOOL NURSES (119)

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 1a. Miss E. R. Coates, 6, The Willows, Wallasey	Hoylake U.D. (Meols & House Wards)	Broomfield, Meols Drive, Hoylake (Tel. Hoylake 2322) Welfare Centre—Thurs. p.m. Ante-Natal Clinic—Tues. o.m. Preparation Class—Wed. p.m. M.A. Clinic—Fri. o.m. Mantoux Testing Clinic—Last Thurs. a.m.
DISTRICT No. 1b. Miss W. Lacy, 3, Glebe Road, Wallasey	Hoylake U.D. (Central, Park & South Wards)	Broomfield, Meols Drive, Hoylake Welfare Centre—Thurs. p.m. Ante-Natal Clinic—Alt. Tues. a.m. Preparation Class—4th Wed. p.m. Paediatric Clinic—Alt. Tues. p.m. Screening Clinic—2nd & 4th Mon. p.m. Mantoux Testing Clinic—Lost Thurs. a.m. Parish Hall, West Kirby Welfare Centre—Fri. p.m.
DISTRICT No. 1c. Mrs. D. Christian, 87, Palm Grove, Oxtou Birkenhead (Tel. Claughton 4702)	Hoylake U.D. (Grange Ward, Caldý & Frankby Ward Pt. ii—Caldý)	Broomfield, Meols Drive, Hoylake Young Children's Clinic—1st Fri. a.m. Ante-Natal Clinic—Tues. o.m. Screening Clinic—2nd & 4th Mon. p.m. Preparation Class—Last Wed. p.m. Paediatric Clinic—Alt. Tues. p.m. Parish Hall, West Kirby Welfare Centre—Fri. p.m. Parish Hall, Newton Welfare Centre—2nd and 4th Wed. p.m.
DISTRICT No. 1d. Miss D. Maybury, 12, Far Meadow Lane, Irby, Heswall, Wirral (Tel. Irby 2564)	Hoylake U.D. (Greasby Ward, Caldý & Frankby Ward Pt. i—Frankby)	Broomfield, Meols Drive, Hoylake Ante-Natal Clinic—Alt. Tues. o.m. Preparation Class—Alt. Wed. p.m. Eye Clinic—1st, 3rd and 5th Mon. p.m. Methodist Church Hall, Greasby Welfare Centre—Tues. p.m. Screening Clinic—1st Wed. o.m.
DISTRICT No. 2a. Miss R. E. Abraham, 75a Rock Lane East, Rock Ferry Birkenhead (Te Rock Ferry 728)	Bebington M.B. (N. & part S. Brom. Wards)	The Rake, Eastham (Tel. Eastham 2411) Ante-Natal Clinic—Fri. a.m. Council Offices, Bromborough (Tel. Brom. 2102) Young Children's Clinic—4th Tues. p.m. Screening Clinic—Fri. p.m. Welfare Centre—Thurs. a.m.
Mrs. J. O. Pace, 37, Woodhey Court, Old Chester Road, Bebington, Wirral	Bebington M.B. (Park & New Ferry Wards)	New Ferry Park Welfare Centre—Wed. p.m. Ante-Natal Clinic—Mon. a.m. Preparation Class—Thurs p.m.
Mrs. M. F. Cordon, 8, Westbrook Road, Saughall Massie, Wirral (Tel. Arrowelrook 6051)	Bebington M.B. (Eastham (pt. i) and Pt. S. Brom- borough Wards)	The Rake, Eastham Welfare Centre—Mon. p.m. Ante-Natal Clinic—Fri. p.m. Screening Clinic—1st and 3rd Tues. p.m. Council Offices, Bromborough Screening Clinic—Fri. p.m. Welfare Centre—Thurs. a.m. Handicapped Persons Club—Wed. p.m.
Miss D. V. Stamper, 25, Hillary Road, Eastham, Wirral	Bebington M.B. (Woodhey and Pt. L. Bebington Wards).	New Ferry Park (Tel. R.F. 1143) Screening Clinic—Fri. o.m. Victoria Hall, Higher Bebington (Tel. Mountwood 1527) Welfare Centre—Tues. p.m. Clatterbridge Hospital Geriatric Clinic—Thurs. p.m.

District No. 2a—(cont.)

CIVIL PARISHES

CENTRES & CLINICS

Mrs. M. Becker,
38, Brookhurst Road,
Bron borough
Wirral

Bebington M.B.
(Hr. Bebington and Part
L. Bebington Wards)

New Ferry Park
Ante-Natal Clinic—*Mon. a.m.*
Preparation Class—*Thurs. p.m.*
Young Children's Clinic, *Wed. a.m.*
School Clinic, *Wed. a.m.*
Victoria Hall, Higher Bebington
Welfare Centre *Tues. p.m.*
Mayer Hall, Bebington (Tel. R.F. 1440)
Welfare Centre—*Fri. p.m.*

Miss D. Cadogan,
1, Maldwyn Road,
Wallasey.

Bebington M.B.
(Poulton & Pt. L. Bebington
Wards)

New Ferry Park
Welfare Centre—*Wed. p.m.*
Ante-Natal Clinic—*Mon. a.m.*
Eye Clinic—*Thurs. a.m.*
Clatterbridge Hospital
Chest Clinic—*Tues. p.m.* (twice monthly)
Women's Institute, Thornton Hough
Welfare Centre *1st and 3rd Fri. p.m.*

Miss E. Nicholson,
37, Mill Road,
Hr. Bebington,
Wirral
(Tel. Mountwood 1949)

Bebington M.B.
(Sunlight Ward)

New Ferry Park
Paediatric Clinic—*2nd and 4th Tues. a.m.*
Mayer Hall, Bebington
Welfare Centre—*Fri. p.m.*
Young Children's Clinic—*Mon. p.m.*
Screening Clinic—*Tues. p.m.*

Miss E. M. Wright,
705, Borough Road,
Birkenhead

Bebington M.B.
(Eastham Ward (pt. ii))

The Rake, Eastham
Welfare Centre—*Mon. p.m.*
Paediatric Clinic—*1st and 3rd Tues. a.m.*
School Clinic—*4th Tues. a.m.*
Young Children's Clinic—*Tues. p.m.*
Screening Clinic—*1st and 3rd Tues. p.m.*
Eye Clinic—*2nd and 4th Thurs. p.m.*
Ante-Natal Clinic—*Fri. a.m.*
Preparation Class—*Wed. p.m.*

DISTRICT No. 2b.

Miss E. L. Roberts,
23, Penmon Drive,
Heswall,
Wirral

Capenhurst
Ledsham

Puddington
Shotwick
Woodbank

Neston U.D.
(Burton & Ness, Little Neston &
Willaston Wards)

Mellock Lane, Neston (Tel. Neston 2189)
Welfare Centre—*Thurs. p.m.*
Ante-Natal Clinic—*Mon. a.m.*
Preparation Class—*2nd and 4th Fri. p.m.*
Screening Clinic—*2nd and 4th Tues. a.m.*
Eye Clinic—*2nd and 4th Mon. p.m.*
Red Cross Depot, Willaston
(Tel. Willaston 3277)
Welfare Centre—*1st and 3rd Fri. p.m.*

Mrs. D. Dromgoole,
Oysters,
36, Norley Drive,
Vicars Cross,
Chester.

Neston U.D.
(Leighton & Parkgate, Neston
East & West Wards)

Mellock Lane, Neston
Welfare Centre—*Thurs. p.m.*
Young Children's Clinic—*3rd Tues. a.m.*
Ante-Natal Clinic—*Mon. a.m.*
Preparation Class—*1st, 3rd and 5th Fri. p.m.*
Screening Clinic—*2nd and 4th Tues. a.m.*
M.A. Clinic—*1st Tues. a.m.*
Paediatric Clinic—*Thurs. p.m.*

DISTRICT No. 2c.

Mrs. E. G. Sinden,
Gayton Grange (Flat 2),
Well Lane,
Gayton,
Wirral
(Tel. Heswall 2706)

Irby
Pensby
Thurstaston

Telegraph Road, Heswall
(Tel. Heswall 3551)
Welfare Centre—*Mon. p.m.*
Ante-Natal Clinic—*Thurs. a.m.*
Preparation Class—*Alt. Thurs. p.m.*
M.A. Clinic—*1st Tues. p.m.*
Screening Clinic—*1st and 3rd Tues. a.m.*
Paediatric Clinic—*2nd and 4th Tues. a.m.*
Methodist Hall, Mill Hill Road, Irby
Welfare Centre—*1st and 3rd Wed. p.m.*
Church Hall, Pensby
Welfare Centre—*2nd and 4th Tues. p.m.*

DISTRICT No. 2d.

Miss M. Okill,
79, Irby Road,
Heswall,
Wirral

Barnston
Gayton
Heswall-cum-Oldfield

Telegraph Road, Heswall
Welfare Centre—*Mon. p.m.*
Young Children's Clinic—*3rd Tues. p.m.*
Ante-Natal Clinic—*Thurs. a.m.*
Preparation Class—*Alt. Thurs. p.m.*
Screening Clinic—*1st and 3rd Tues. a.m.*
Eye Clinic—*1st and 3rd Fri. a.m.*

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 3a.

Miss W. M. Williams,
5, Woodward Road,
Rock Ferry,
Birkenhead

Ellesmere Port M.B.
Westminster, Stanlow C.C. and
pt. Cential A.A. Wards)

Stanney Lane, Ellesmere Port
(Tel. E. Port 1713)
Welfare Centre—*Alt. Tues. p.m.*
Ante-Natal Clinic—*Mon. a.m.*
Ellesmere Port Hospital
Paediatric Clinic—*Thurs. a.m.*
Village Hall, Ince
Welfare Centre—*4th Wed. p.m.*

Miss R. E. Ruark,
187, Raeburn Avenue,
Eastham,
Wirral

Ellesmere Port M.B.
(Grange Ward)

Stanney Lane, Ellesmere Port
Welfare Centre—*Alt. Fri. p.m.*
Ante-Natal Clinic—*Mon. a.m., Wed. p.m.*
Screening Clinic—*Alt. Tues. p.m.*
Chester Road, Little Sutton (Tel. Hooton
3297)
Ante-Natal Clinic—*Fri. a.m.*

Miss G. M. Thorburn,
Flat 2,
35, Liverpool Road
Chester

Ellesmere Port M.B.
(South Pt. Whitby Ward)

Stanney Lane, Ellesmere Port
Welfare Centre—*Fri. a.m.*
E.N.T. Clinic—*2nd and 4th Mon. a.m.*
Screening Clinic—*Tues. p.m.*
Ante-Natal Clinic—*Alt. Wed. p.m.*
Audiology Clinic—*2nd Tues. p.m.*
(quarterly)

Miss M. L. Bate,
86, Chester Road,
Ellesmere Port
(Tel. E. P. 3009)

Ellesmere Port M.B.
(Stanlow C.D. Ward)

Stanney Lane, Ellesmere Port
Welfare Centre—*Alt. Tues. p.m.*
Young Children's Clinic—*4th Thurs. p.m.*
Screening Clinic—*Alt. Tues. p.m.*
B.C.G. Clinic—*2nd Mon. a.m.*
Preparation Class—*Mon. p.m.*

Miss L. Goodacre
Flat 4,
2, Townfield Lane,
Bebington.

Ellesmere Port M.B.
(Victoria, Central A.B. and
pt. Central A.A. Wards)

Stanney Lane, Ellesmere Port
Welfare Centre—*Tues. p.m.*
Preparation Class—*Mon. p.m.*
Eye Clinic—*Fri. a.m.*

Miss J. F. Fawcett,
2, Glen Athol Road,
Great Sutton,
Wirral

Ellesmere Port M.B.
(Sutton Ward)

Chester Road, Little Sutton
Welfare Centre—*Mon. p.m.*
Young Children's Clinic—*1st Tues. p.m.*
Ante-Natal Clinic—*Fri. a.m.*
Preparation Class—*Thurs. p.m.*
Midwives Clinic—*Thurs. p.m.*
Screening Clinic—*Tues. p.m. as required.*
Immunisation Clinic—*2nd Fri. p.m.*

Miss K. E. Cawthorn,
19, Kirket Lane,
Bebington

Ellesmere Port M.B.
(Poole Ward)

Chester Road, Little Sutton
Welfare Centre—*Mon. p.m.*
Ante-Natal Clinic—*Fri. a.m.*
Screening Clinic—*Tues. p.m.*
Community Centre, Overpool
Welfare Centre—*1st and 3rd Thurs. p.m.*

Miss M. M. Trist
Flat 2,
39b, Penketh Road,
Wallasey.

Ellesmere Port M.B.
(North part Whitby Ward)

Stanney Lane, Ellesmere Port
Welfare Centre—*Fri. p.m.*
Ante-Natal Clinic—*Alt. Wed. p.m.*

Mrs. H. K. Wright,
(Clinic Nurse)

Stanney Lane, Ellesmere Port
Welfare Centre—*Tues. and Fri. p.m.*
Ante-Natal Clinic—*Mon. a.m. Wed. p.m.*
M.A. Clinic—*Thurs. a.m.*
Immunisation Clinic—*2nd Thurs. p.m.*
Midwives Clinic—*Mon. p.m.*

DISTRICT No. 3b,

Miss D. Toft,
Golf House,
The Oaks,
Upton,
Chester
(Tel. Chester 23638)

Aldford
Buerton
Chester Castle
Christleton
Churton Heath
Clayerton
Doddleston
Eaton
Eccleston
Golborne Bellow
Golborne David
Handley
Huntington
Kinnerton
Lea Newbold
Marlton
Newton-by-T'hal
Poulton
Pulford
Rowton
Saughton
Tattenhall

Barbour Institute, Tattenhall
Welfare Centre—*1st and 3rd Mon. p.m.*
Village Hall, Huntington
Welfare Centre—*2nd and 4th Wed. p.m.*
Women's Institute, Christleton
Welfare Centre—*1st and 3rd Thurs. p.m.*
Immunisation Clinic—*Last Fri. a.m.*

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 4a

Miss B. Jackson,
30, Acres Lane,
Upton,
Chester
(Tel. Chester 27251)

Barrow
Bridge Trafford
Dunham-on-the-Hill
Elton
Great Boughton
Guilden Sutton
Hapsford
Hoole Village
Littleton
Little Stanney
Mickle Trafford
Picton
Stoke
Thornton-le-Moors
Wimbolds
Trafford

55 Hoole Road, Chester (Tel. Chester 22299)
M.A. Clinic—1st Mon. p.m.
Screening Clinic—2nd and 4th Fri. p.m.
Eye Clinic—2nd and 5th Thurs. p.m.
Village Hall, Barrow
Welfare Centre—1st and 3rd Wed. p.m.
Women's Institute, Christleton
Welfare Centre—3rd Thurs. p.m.
The Rock, Frodsham
Screening Clinic—1st and 3rd Fri. p.m.
Congregational Church Hall, Gt. Boughton, Chester.
Welfare Centre—2nd and 4th Tues. p.m.

DISTRICT No. 4b.

Miss M. G. E. Crawford,
6, Newton Park View,
Newton,
Chester
(Tel. Chester 24420)

Bache
Backford
Caughall
Chorlton-by-Backford
Croughton
Lea-by-Backford
Mollington
Moston
Saughall
Shotwick Park
Upton
Wervin

Village Hall, Upton
Welfare Centre—Thurs. p.m.
Vernon Institute, Saughall
Welfare Centre—1st, & 3rd Mon. p.m.

DISTRICT No. 5.

Miss M. Gourlay,
Castle View,
Clotton Lane,
Huxley,
Chester
(Tel. Huxley 282)

Ashton
Beeston
Bruen Stapleford
Burton-by-Tarvin
Clotton Hoofield
Cotton Abbots
Cotton Edmunds
Delamere
Duddon
Eaton
Foulk Stapleford
Hatton
Hockenhull
Horton-cum-Peel
Huxley
Iddinshall
Kelsall
Mouldsworth
Pryor's Hey
Rushton
Tarporley
Tarvin
Tilstone Fearnall
Tiverton
Utkinton
Waverton
Willington

Victory Hall, Tarporley
Welfare Centre—2nd and 4th Thurs. p.m.
Screening Clinic—1st Fri. a.m.
(odd months)
Eye Clinic—1st Thurs. p.m.
Parish Room, The Vicarage, Tarvin
Welfare Centre—2nd and 4th Wed. p.m.
Screening Clinic—1st Fri. a.m.
(even months)
Parish Hall, Kelsall
Welfare Centre—1st and 3rd Tues. p.m.

DISTRICT No. 6.

Mrs. W. Jones,
Lyle Villas,
Caergwrle,
Wrexham
(Te Caergwrle 213)

Agden
Aldersey
Barton
Bickerton
Bickley
Bradley
Broxton
Burwardsley
Caldecott
Carden
Chidlow
Chorlton
Chowley
Church Shocklach
Churton-by-Alf'd
Ch'rton-by-F'don
Clutton
Coddington
Crewe
Cuddington
Duckington
Edge
Edgerley
Egerton
Farndon
Grafton
Hampton
Harthill
Horton
Kings Marsh
Larkton
Macefen
Malpas
Newton-by-Malpas
Oldcastle
Overton
Shocklach Oviat
Stockton
Stretton
Threapwood
Tilston-by-Malpas
Tushingham
Wigland
Wychough

Parish Hall, Malpas
Welfare Centre—1st, 3rd & 5th Mon. p.m.
Screening Clinic—3rd Thurs. p.m.
Memorial Hall, Farndon
Welfare Centre—1st and 3rd Tues. p.m.

DISTRICT No. 7a.

Mrs. D. E. Govan,
23, Waylands Drive,
Liverpool, 25.

Runcorn U.D.
(Halton & Grange Wards)

34, Halton Road, Runcorn (Tel. Runcorn 2449)

Welfare Centre—Wed. a.m.
Ante-Natal Clinic—Thurs. a.m.
Immunisation Clinic—1st Tues. a.m.
St. Andrew's Church Hall, Grange
Welfare Centre—2nd and 4th Thurs. p.m.

Miss C. V. Kilcullen,
23, Park Avenue,
Widnes

Runcorn U.D.
(Heath and Victoria Wards)

34 Halton Road, Runcorn
Welfare Centre—Wed. p.m.
Ante & Post Natal Clinic—Thurs. a.m.
Screening Clinic—Tues. p.m.
M.A. Clinic—2nd Fri. a.m.

	CIVIL PARISHES		CENTRES & CLINICS
DISTRICT No. 7a—contd. Miss A. Davies, 3, Cornwall Street, Runcorn	Runcorn U.D. (Weston Ward)		34 Halton Road, Runcorn Welfare Centre—Wed. p.m. Young Children's Clinic—2nd Thurs. p.m. Screening Clinic—Tues. p.m. Russell Hall, Weston Point Welfare Centre—1st and 3rd Thurs. p.m.
Mrs. J. Delaney, 8, Boston Avenue, Runcorn	Runcorn U.D., (Bridgewater & Mersey Wards)		34 Halton Road, Runcorn Welfare Centre—Wed. a.m. 28 Halton Road, Runcorn Eye Clinic—Tues. p.m. Memorial Hospital, Runcorn Paediatric Clinic—Wed. p.m. 28 Halton Road, Runcorn Preparation Class—Fri. p.m.
H.V.'s attend on rota the clinic opposite			
DISTRICT No. 7b. Miss S. E. Robinson, 10, Stanley Villas, Runcorn (Tel. Runcorn 2556)	Aston Daresbury Dutton Halton Hatton Kingsley Moore	Norley Norton Preston Brook Sutton Walton Whitley	Hurst Methodist Church, Kingsley Welfare Centre—2nd and 4th Wed. p.m. 65 Whitefield Road, Stockton Heath Screening Clinic—as required
DISTRICT No. 8. Miss R. Potter, 262, Padgate Lane, Padgate, Warrington	Alvanley Frodsham Helsby	Manley	The Rock, Frodsham (Tel. Frodsham 2388) Welfare Centre—Alt. Tues. p.m. Ante-Natal Clinic—Thurs. a.m. Screening Clinic—1st and 3rd Fri. p.m. Eye Clinic—2nd Wed. a.m. 4th Thurs. a.m. Cable Works, Helsby Welfare Centre—Alt. Tues. p.m. 55 Hoole Road, Chester Screening Clinic—2nd, and 4th Fri. p.m.
DISTRICT No. 9a Miss K. Gosney, The Green, Hartford, Northwich	Acton Anderton Barnton Comberbach Crowton	Great Budworth Little Leigh Marbury	Methodist Church, Barnton Welfare Centre—2nd and 4th Wed. p.m. Screening Clinic—2nd & 4th Wed. a.m. 23 Church Lane, Weaverham Welfare Centre—Tues. p.m. Parish Hall, Comberbach Welfare Centre—1st and 3rd Wed. p.m. Screening Clinic—3rd Wed. a.m.
DISTRICT No. 9b. Mrs. B. Vintner, 58, Middlewich Road, Northwich	Weaverham		23 Church Lane, Weaverham Welfare Centre—Tues. p.m. Young Children's Clinic—3rd Mon. p.m. Preparation Class—Fri. a.m. M.A. Clinic—Fri. a.m. Screening Clinic—Fri. a.m. Eye Clinic—1st Thurs. a.m.
DISTRICT No. 10. Miss F. N. Pickford, 327 London Road, Davenham, Northwich	Knutsford U.D. Aston-by-Bud'th Bexton Mere Nether Peover	(West Ward) Peover Inferior Pickmere Plumley Tabley Inferior Tabley Superior	County Offices, Bexton Road, Knutsford Welfare Centre—Wed. p.m. Immunisation Clinic—Last Thurs. a.m. Young Children's Clinic—4th Thurs. p.m. (alt. months) The Institute, Lower Peover Welfare Centre—2nd Mon. p.m. Village Hall, Plumley Welfare Centre—1st and 3rd Thurs. p.m.
Miss H. M. Dawson, Bollin Grove, Prestbury, Macclesfield	Knutsford U.D. (Over and Nether Wards) Goostrey Ollerton Peover Superior Toft		County Offices, Bexton Road, Knutsford (Tel. Knutsford 273) Welfare Centre—Wed. p.m. Young Children's Clinic—4th Thurs. p.m. (alt. months) M.A. Clinic—2nd Wed. a.m. Screening Clinic—2nd and 4th Fri. a.m. Eye Clinic—3rd Thurs. p.m. Social Club, Goostrey Welfare Centre—1st and 3rd Tues. p.m. Parish Room, Over Peover Welfare Centre—1st and 3rd Mon. p.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No 11. Miss M. Owen, 15, Roughay Gardens, Brownley Green, Wythenshawe, Manchester, 22	Northwich U.D. (Witton and Northwich BA Wards)	Parkfield, Middlewich Road, Northwich (Tel. Northwich 2186) Welfare Centre—Thurs. p.m. Young Children's Clinic—1st Wed. p.m. Preparation Class—Mon. p.m. Screening Clinic—1st and 2nd Wed. a.m.
Mrs. E. E. Conlin, 38 King Street, Knutsford	Northwich U.D. (Castle and Winnington Wards)	Darland House, Winnington Hill, Northwic. (Tel. Northwich 4643) Welfare Centre—Tues. p.m. Paediatric Clinic—4th Mon. p.m. Screening Clinic—Thurs. p.m.
DISTRICT No. 12a, Mrs. M. T. H. Twigg, 23 Amherst Road, Mauldeth Road, Withington,, Manchester 20 (Tel. Rusholme 9423)	Allstock Lach Dennis Lostock Gralam Marston Rudheath Whatecroft Wincham	Parkfield, Middlewich Road, Northwich Welfare Centre—Thurs. p.m. Preparation Class—Mon. p.m. E.N.T. Clinic—2nd Wed. a.m. Alkali Social Club, Lostock Gralam Welfare Centre—2nd and 4th Wed. p.m.
DISTRICT No. 12b. Miss P. Holt, Ivy House, Dunham Town, Altrincham (Tel. Altrincham 2505)	Cuddington Hartford	Parkfield, Middlewich Road, Northwich Eye Clinic—1st, 2nd & 3rd Thurs. a.m. and 1st Fri. p.m. Methodist Chapel, Hartford Welfare Centre—2nd & 4th Tues. p.m. Church Hall, Sandiway Welfare Centre—1st & 3rd Tues. p.m. 23 Church Lane, Weaverham Screening Clinic—Fri. a.m.
DISTRICT No. 13a Mrs. M. Brown Seatoller, Northwich Road, Weaverham, Northwich (Tel. Weaverham 2357)	Winsford U.D. (Vale Royal & Wharton Wards) Darnhall Marton Little Budworth Moulton Oakmere	98 Weaver Street, Winsford (Tel. Winsford 2387) Young Children's Clinic—1st Thurs. p.m. Welfare Centre—Fri. p.m. Preparation Class—Wed. p.m. Eye Clinic—2nd 3rd & 4th Thurs. p.m. Screening Clinic—1st Tues. p.m. Church Hall, Moulton Welfare Centre—3rd Wed. p.m.
DISTRICT No. 13b. Miss J. M. Gassick, 471, Chester Road, Hartford, Northwich (Tel. Sandiway 2040)	Winsford U.D. (Gravel, Over & Swanlow Wards)	98 Weaver Street, Winsford Welfare Centre—Fri. p.m. Young Children's Clinic—1st Thurs. p.m. Preparation Class—Wed. p.m. M.A. Clinic—Fri. 2 p.m. E.N.T. Clinic—2nd Tues. p.m. Screening Clinic—1st Tues. p.m. Methodist Church, Davenham Screening Clinic—1st Mon. p.m. Farm of the Good Shepherd, Leftwich Screening Clinic—4th Tues. p.m.
DISTRICT No. 14a. Miss M. Barlow, Tarnhow St. Oswald's Crescent, Brereton, Sandbach (Tel. Holmes Chapel 2318)	Middlewich U.D. Sproston Byley Church Hulme Cranage	85 Wheelock Street, Middlewich Welfare Centre—Mon. p.m. 1st. Thurs.p.m. Young Children's Clinic—3rd Wed. p.m. Eye Clinic—3rd Tues.p.m. 1st Thurs. p.m. Screening Clinic—2nd, 3rd, 4th & 5th Thurs. p.m. Mother's Union Hut, Holmes Chapel Welfare Centre—2nd & 4th Tues. p.m.
DISTRICT No. 14b, Miss A. Gratrix, 85, Wheelock Street, Middlewich (Tel. Middlewich 165)	Northwich U.D. (Northwich BB Ward) Bostock Stanthorne Davenham Tetton Wimboldsley	85 Wheelock Street, Middlewich Screening Clinic—2nd, 3rd, 4th & 5th Thurs. p.m. Darland House, Winnington Hill, Northwich Screening Clinic—1st Thurs. p.m. Methodist Church, Davenham Welfare Centre—1st Mon. p.m. Farm of the Good Shepherd, Leftwich Welfare Centre—2nd & 4th Tues. p.m. Midwives Clinic—2nd & 4th Tues. p.m.

	CIVIL PARISHES	CENTRES & CLINICS	
DISTRICT No. 15. Miss E. M. Scott, 54, Highfield Drive, Nantwich	Nantwich U.D. (Barony and Wellington Wards) Alraham Leighton Aston-juxta Minshull Vernon Mondrum Poole Calveley Wardle Cholmondeston Wettenhall Church Minshull Woolstanwood Henhull Worleston	The Dowery, Barker Street, Nantwich (Tel. Nantwich 65360) Welfare Centre—Thurs. p.m. Preparation Class—Mon. p.m. M.A. Clinic—2nd Mon. a.m. Screening Clinic—1st Fri. p.m.	
DISTRICT No. 16a Mrs. F. G. Kirkham, St. Bees, Marsh Lane, Nantwich	Nantwich U.D. (Weaver Ward) Acton Edleston Baddiley Faddiley Baddington Haughton Brindley Hurleston Broomhall Peckforton Bulkeley Ridley Bunbury Sound Burland Spurstow Cholmondeley Stoke Chorley Woodcott	The Dowery, Barker Street, Nantwich Welfare Centre—2nd & 4th Thurs. p.m. Young Children's Clinic—1st Thurs' a.m. Screening Clinic—2nd Fri. p.m. Oddfellows Hall, Bunbury Welfare Centre—1st and 3rd Fri. p.m.	
DISTRICT No. 16b. Miss D. Griffiths, East View, Little Heath, Audlem, Crewe	Audlem Austerston Batherton Blakenhall Bridgemere Buerton Checkley-cum- Wrinehill Chorlton Coole Pilate Dodcott-cum- Wilkesley Doddington	Hankelow Hatherton Hough Hunsterson Lea Marbury Newhall Norbury Stapeley Walgherton Wirswall Wrenbury Wybunbury	The Dowery, Barker Street, Nantwich Screening Clinic—1st and 3rd Fri. p.m. Eye Clinic—2nd, 3rd 4th and 5th Thurs. a.m. Parish Hall, Wrenbury Welfare Centre—2nd and 4th Wed. p.m. Methodist Church Hall, Audlem Welfare Centre—1st and 3rd Tues. p.m.
DISTRICT No. 16c. Miss R. Walch, Wychdale, Colleys Lane, Willaston, Nantwich	Willaston Wistaston	Stalbridge Road, Crewe Paediatric Clinic—1st Fri. p.m. Memorial Hall, Church Lane, Wistaston Welfare Centre—2nd and 4th Wed. p.m.	
DISTRICT No. 17a Mrs. A. Clayton, The Dowery, Barker Street, Nantwich	Nantwich U.D. (Willaston Ward) Barthomley Crewe (Rural) Basford Haslington Rope	Shavington- cum-Gresty Warmingham Weston	The Dowery, Barker Street, Nantwich Welfare Centre—1st and 3rd Thurs. p.m. Screening Clinic—2nd Fri. p.m. M.A. Clinic—4th Mon. a.m. Yoxall Institute, Haslington Welfare Centre—1st and 3rd Tues. p.m. Church Hall, Shavington Welfare Centre—2nd and 4th Tues. p.m.
DISTRICT No. 17b Miss A. Mullany, 54, Highfield Drive, Nantwich	Crewe M.B. (South District)	Stalbridge Road, Crewe (Tel. Crewe 2450) Welfare Centre—Mon. p.m. Wed. a.m. M.A. Clinic—Tues. a.m. Screening Clinic—1st, 3rd & 5th Wed. p.m. Eye Clinic—2nd & 4th Fri. p.m. Young Children's Clinic—3rd Fri. p.m. Preparation Class—Thurs. p.m.	
Mrs. F. E. Strowbridge, 60, Sandilands Park, Wistaston, Crewe	Crewe M.B. (Central District)	Stalbridge Road, Crewe Welfare Centre—1st, 3rd & 5th Mon. p.m. Wed. a.m. Young Children's Clinic—3rd Fri. p.m. Screening Clinic—1st, 3rd, & 5th Wed. p.m. Eye Clinic—2nd & 4th Fri. p.m. Preparation Class—Thurs. p.m.	
Mrs. R. Davies,* 84, Church Lane, Wistaston, Crewe	Crewe M.B. (S.W. District)	Stalbridge Road, Crewe Welfare Centre—2nd and 4th Mon. p.m. Paediatric Clinic—1st Fri. p.m. Preparation Class—Thurs. p.m. Minshull New Road, Crewe Welfare Centre—1st, 3rd & 5th Tues. p.m.	

CIVIL PARISHES

CENTRES & CLINICS

District No. 17b.—cont.

Mrs. L. M. D. Atkinson,*§
12, Crewe Road,
Shavington,
Crewe

Crewe M.B.
(East District)

Ludford Street, Crewe (Tel. Crewe 2376)
Screening Clinic—2nd Wed. p.m.

Miss E. Broom,*§
10, Clifton Avenue,
Crewe

Crewe M.B.
(North Central District)

Ludford Street, Crewe
Paediatric Clinic—3rd Fri. p.m.
Screening Clinic—4th Wed. p.m.
Eye Clinic—1st, 2nd, 4th & 5th Fri. a.m.

Miss J. S. Reid,*§
199, Edleston Road,
Crewe

Crewe M.B.
(West & Coppenhall District)

Ludford Street, Crewe
E.N.T. Clinic—3rd Wed. a.m.
Screening Clinic—2nd & 4th Wed. p.m.
Minshull New Road, Crewe
Welfare Centre—1st, 3rd & 5th Tues. p.m.

*These Health Visitors also attend on rota the three
other Clinics listed opposite.

Ludford Street, Crewe
Welfare Centre—Thurs. a.m. and p.m.
Ante-Natal Clinic—Mon. and Tues. p.m.
M.A. Clinic—Mon. a.m.

§These Health Visitors attend this Clinic on rota.

Ludford Street, Crewe
Young Children's Clinic—1st Fri. p.m.

DISTRICT No. 17c.

Miss H. M. Furness,

Alsager U.D. Hassall
(except East Ward)
Betchton

15 Centre Court, Alsager (Tel. Alsager 628)
Preparation Class—Thurs. p.m.
M.A. Clinic—1st & 3rd Fri., 11—12 noon
Screening Clinic—1st and 3rd Mon. p.m.
Eye Clinic—1st and 3rd Wed. a.m.
St. Mary's Sunday School, Alsager
Welfare Centre—Tues. p.m.

DISTRICT No. 18a.

Miss M. A. Cowley,*
Bridge House,
Glebe Avenue,
Grappenhall,
Warrington

High Legh

Grappenhall
(North and
Thelwall Wards)

Methodist Sunday School, Grappenhall
Welfare Centre—Tues. p.m.
Screening Clinic—2nd and 4th Fri. p.m.

Mrs. E. C. Richmond,*
Flat 1,
Silverburn,
Albert Square,
Bowdon

Antrobus
Appleton

Grappenhall
(South Ward)
Stretton

65 Whitefield Road, Stockton Heath
Screening Clinic—as required
Methodist Sunday School, Grappenhall
Screening Clinic—2nd and 4th Fri. p.m.

DISTRICT No. 18b.

Miss M. Newbold,*
62, Fairfield Gardens,
Stockton Heath,
Warrington

Stockton Heath

65 Whitefield Road, Stockton Heath
(Tel. Stockton H. 925)
Welfare Centre—Mon. p.m.
Young Children's Clinic—2nd Thurs p.m.
(even months)
Screening Clinic—As required
Eye Clinic—4th Tues. p.m.
Preparation Class—Wed. p.m.

*These H.V.'s attend on rota the clinic opposite

DISTRICT No. 19

Miss F. L. Govan,
29, Eagle Brow,
Lymm,
Cheshire

Lymm U.D.

29 Eagle Brow, Lymm (Tel. Lymm 277)
Welfare Centre—Tues. p.m.
Young Children's Clinic—
2nd & 4th Wed. p.m.
Midwives Clinic—Thurs. p.m.
M.A. Clinic—Wed. a.m.
Screening Clinic—Mon. p.m.
Eye Clinic—4th and 5th Thurs. p.m.
Immunisation Clinic—3rd Thurs. a.m.
Women's Institute, Sandy Lane, Heatley
Welfare Centre—1st and 3rd Wed. p.m.
St. Mary's Institute, Partington.
Screening Clinic—4th Fri. a.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 20.

Mrs. J. M. Taylor,*
73, Chapel Road,
Sale

Sale M.B.
(St. Martin's & Mersey NP
Wards)

Raglan Road, Sale
Welfare Centre—*Tues p.m.*
Brookes Institute, Sale
Welfare Centre—*Fri. p.m.*
70 Chapel Road, Sale (Tel. Sale 1329)
Young Children's Clinic—*3rd Mon. p.m.*
Community Centre, Sale Moor
Welfare Centre—*Thurs. p.m.*
70 Chapel Road, Sale
M.A. Clinic—*Wed. a.m.*
Screening Clinic—*Tues. a.m.*

Mrs. E. Heywood,*†
125, Norris Road, Sale

Sale M.B.
(Sale Moor Ward)

Mrs. M. Holmes*
60, Broad Road,
Sale

Sale M.B.
(St. Anne's NB &
St. John's Wards)

70 Chapel Road, Sale
Welfare Centre—*Tues. p.m.*
Ante and Post Natal Clinic—*Wed p.m.*
Screening Clinic—*Tues. a.m.*
Community Centre, Sale Moor
Welfare Centre—*Thurs. p.m.*

Miss K. L. Marsden,*
6, Burford Close,
Wilmslow

Sale M.B.
(St. Mary's and Brooklands
Wards)

Raglan Road, Sale
Welfare Centre—*Tues. p.m.*
Brookes Institute, Sale
Welfare Centre—*Fri. p.m.*

Mrs. A. Metcalfe*†
10, Ravenwood Drive,
Hale Barns
Altrincham

Sale M.B.
(St. Paul's, St. Anne's (NA &
NC) & Mersey (NQ & NR)
Wards)

70 Chapel Road, Sale
Welfare Centre—*Tues. and Thurs. p.m.*
Preparation Class—*Wed. p.m.*
Screening Clinic—*Tues. a.m.*

*These Health Visitors also attend on rota
the Clinic opposite.

† do.

70 Chapel Road, Sale
Eye Clinic—*Mon. p.m.*
Sun-ray Clinic—*Mon. and Fri. p.m.*

DISTRICT No. 21a.

Miss E. Edwards,
Top Flat,
1, Hawthorn Road,
Hale,
Altrincham

Hale U.D.
(North, Central & West Wards)
Ashley

9 Broomfield Lane, Hale (Tel. Alt. 4653)
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*4th Tues. p.m.*
M.A. Clinic—*Fri. p.m.*
Eye Clinic—*Tues. a.m.*
Vaccination and Immunisation Clinic—
1st Fri. a.m.

Miss A. Milvenan,
1, Bollin Court,
Bowdon,
Altrincham

Bowdon U.D.
Hale U.D. (Hale Barns Ward)
Ringway Rostherne
Tatton

Unitarian Schoolroom, Hale Barns
Welfare Centre—*1st & 3rd Thurs. p.m.*
9 Broomfield Lane, Hale
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*4th Tues. p.m.*
(even months)
Screening Clinic—*2nd & 4th Fri. a.m.*
Polio Vaccination Clinic—*1st Fri. a.m.*
Methodist Schoolroom, Bowdon
Welfare Centre—*2nd & 4th Thurs. p.m.*
Unitarian Schoolroom, Hale Barns
Welfare Centre—*1st & 3rd Thurs. p.m.*

DISTRICT No. 21b

Miss M. Lea,
18, Oughtlington Lane,
Lymm
Cheshire

Agden
Bollington
Carrington
Partington (part)
Dunham Massey
Millington
Warburton

Central Road, Partington (Tel. Irlam 2409)
Welfare Centre—*Mon. and Thurs. p.m.*
Preparation Class—*Tues p.m.*
Screening Clinic—*Fri. a.m.*

Miss B. J. Hickson,
Flat No. 1,
Fernside,
Dunham Road,
Altrincham

Partington (part)

Central Road, Partington
Welfare Centre—*Mon. & Thurs. p.m.*
Ante-Natal Clinic—*Fri. p.m.*
Screening Clinic—*Fri. a.m.*

Mrs. F. Pickering,
16, Denstone Ave.,
Davyhulme, Urmston,
Manchester
(Tel Urmston 7246)

Altrincham M.B.
(Dunham & North Wards)

12 The Mount, Altrincham (Tel. Alt. 5323)
Welfare Centre—*Wed. p.m.*
Young Children's Clinic—*2nd Thurs p.m.*
(even months)
M.A. Clinic—*Mon. a.m. (even months)*
Screening Clinic—*1st & 3rd Tues. a.m.*

CIVIL PARISHES

CENTRES & CLINICS

District No. 21b—*cont.*

Mrs. K. M. Connor,
6, The Mount,
Altrincham

Altrincham M.B.
(East, Central & South West
Wards)

12 The Mount, Altrincham
Welfare Centre—*Mon. & Wed. p.m.*
Young Children's Clinic—*2nd Thurs. p.m.*
(odd months)
M.A. Clinic—*Mon. a.m. (odd months)*
Screening Clinic—*1st & 3rd Tues. a.m.*
Vacc. and Immunisation Clinic—*2nd Wed. a.m.*

Mrs. E. G. Morrison,
21, Thorley Lane,
Timperley,
Altrincham

Altrincham M.B.
(Timperley No. 1 & No. 3 Wards)

9 Broomfield Lane, Hale
Screening Clinic—*1st & 3rd Fri. a.m.*
145 Park Road, Timperley (Tel. Sale 6639)
Welfare Centre—*Tues. & Thurs. p.m.*
Young Children's Clinic—*1st Thurs. a.m.*
Ante-Natal Clinic—*2nd & 4th Wed. p.m.*
Preparation Class—*Wed. p.m.*
Screening Clinic—*2nd & 4th Thurs. a.m.*
65 Briarfield Road, Broomwood, Timperley
(Tel. Ringway 4339)
Screening Clinic—*2nd & 4th Wed. a.m.*

Mrs. F. M. Whitworth,
5, Mayfield Close,
Timperley
Altrincham

Altrincham M.B.
(Timperley No. 4. (AU, AV and
AW) Ward)

145 Park Road, Timperley
Welfare Centre—*Thurs. p.m.*
Ante-Natal Clinic—*2nd & 4th Wed. p.m.*
Preparation Class—*Wed. p.m.*
Screening Clinic—*2nd & 4th Thurs. a.m.*
65 Briarfield Road, Broomwood, Timperley
Welfare Centre—*Mon. p.m.*
Screening Clinic—*2nd & 4th Wed. a.m.*

Miss E. Cottrell,
9, Carrington Lane,
Ashton-on-Mersey
Sale,
Cheshire

Altrincham M.B.
(Timperley No. 2 & No. 4 (AS &
AT) Wards)

145 Park Road, Timperley
Welfare Centre—*Tues. a.m. & p.m.*
Young Children's Clinic—*1st Thurs. a.m.*
(even months)
Ante-Natal Clinic—*2nd & 4th Wed. p.m.*
M.A. Clinic—*1st & 3rd Wed. a.m.*
Preparation Class—*Wed. p.m.*

DISTRICT No. 22a

Miss C. M. Marsh,
23, King's Close,
Wilmslow,
Cheshire

Alderley Edge U.D.
Wilmslow U.D. Chorley
(Hough & Morley Great Warford
Wards) Marthall
Mobberley

3 Alma Lane, Wilmslow (Tel. Wilmslow 2535)
Welfare Centre—*Thurs. p.m.*
Screening Clinic—*Alt. Fri. a.m.*
Church Institute, Alderley Edge
Welfare Centre—*Fri. p.m.*
Victory Hall, Mobberley
Welfare Centre—*Alt. Tues. p.m.*

DISTRICT No. 22b

Miss K. Halstead,
11, Park Road,
Cheadle
Cheshire

Wilmslow U.D.
(Dean Row, pt. i., Handforth
& Styal Wards)

The Green, Wilmslow Road, Handforth
(Tel. Wilmslow 5767)
Welfare Centre—*2nd & 4th Mon. p.m.*
Young Children's Clinic—*1st Wed. p.m.*
Preparation Class—*Tues. p.m.*
Screening Clinic—*3rd Fri. a.m.*
3 Alma Lane, Wilmslow
Screening Clinic—*1st, 2nd, 4th & 5th
Fri. a.m.*

DISTRICT No. 22c

Miss D. M. Bowers,
1, Albany Road,
Wilmslow,
Cheshire

Wilmslow U.D.
(Dean Row, pt. ii, and Fulshaw
Wards)

3 Alma Lane, Wilmslow
Welfare Centre—*Thurs. p.m.*
Young Children's Clinic—*2nd Wed. p.m.*
M.A. Clinic—*Thurs. 9—10 a.m.*
Screening Clinic—*1st Fri. a.m.*
Eye Clinic—*1st Tues. p.m.*
Parish Hall, Barlow Road, Lacey Green
Welfare Centre—*1st & 3rd Mon. p.m.*

DISTRICT No. 23a

Miss N. R. Williams,
Ivy Cottage,
Snelson,
Chelford,
Macclesfield

Bosley
Chelford
Eaton
Gawsworth

Henbury
Hulme Walfield
Marton
Mottram-St.-
Andrew
North Rode

Nether Alderley
Over Alderley
Prestbury
Siddington

Somerford
Somerford Booths
Snelson
Swettenham
Twemlow
Withington

Wellington Road, Bollington
(Tel. Bollington 2376)
Welfare Centre—*1st & 3rd Wed. p.m.*
Prestbury Welfare Centre—*2nd & 4th Thurs. p.m.*
Screening Clinic—*Tues. a.m. (except 1st)*
Park Lane, Poynton
Screening Clinic—*4th Tues. p.m.*

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No.23b.

Miss J. Samuels,
181, Bond Street,
Macclesfield

Macclesfield M.B.
(Central District)

52 Bridge Street, Macclesfield
(Tel. Macc. 5501)
Welfare Centre—*Mon. p.m. and*
2nd & 4th Thurs. a.m.
Young Children's Clinic—*4th Tues. p.m.*
Ante-Natal Clinic—*1st & 3rd Wed. p.m.*
Hurdsfield House, Macclesfield
(Tel. Macc. 3282)
Preparation Class—*2nd & 4th Wed. p.m.*

Miss F. M. Yates,
17, Newhall Street,
Macclesfield

Macclesfield M.B.
(South West District)

Sanders Square, Macclesfield
(Tel. Macc. 3800)
Welfare Centre—*Fri. p.m.*
Young Children's Clinic—*2nd Thurs. p.m.*
Ante-Natal Clinic—*4th Wed. p.m.*
Preparation Class—*Mon. p.m.*
Screening Clinic—*4th Wed. a.m.*
Immunisation Clinic—*4th Thurs. p.m.*

Miss A. Grills,
Springfield (Flat 3),
Byron's Lane,
Macclesfield

Macclesfield M.B.
(North East District)

52 Bridge Street, Macclesfield
Ante-Natal Clinic—*1st Wed. p.m.*
Screening Clinic—*1st Wed. a.m.*
Hurdsfield House, Macclesfield
Ante-Natal Clinic—*2nd Wed. p.m.*
Hurdsfield House, Macclesfield
Welfare Centre—*Thurs. p.m.*
Young Children's Clinic—*1st Tues. p.m.*
Ante-Natal Clinic—*2nd Wed. p.m.*
Preparation Class—*1st Wed. p.m.*
Screening Clinic—*2nd Wed. a.m.*
Immunisation Clinic—*3rd Tues. p.m.*

Miss T. Martin,
52, Bridge Street,
Macclesfield

Macclesfield M.B.
(North West District)

Sanders Square, Macclesfield
Ante-Natal Clinic—*4th Wed. p.m.*
Screening Clinic—*4th Wed. a.m.*
52 Bridge Street, Macclesfield
Ante-Natal Clinic—*3rd Wed. p.m.*
52 Bridge Street, Macclesfield
Welfare Centre—*Mon. p.m. and*
1st & 3rd Thurs. a.m.
Ante-Natal Clinic—*1st & 3rd Wed. p.m.*
Screening Clinic—*1st & 3rd Wed. a.m.*
Pierce Street, Macclesfield (Tel. Macc. 3053)
M.A. Clinic—*Tues. & Fri. a.m.*
E.N.T. Clinic—*3rd Man. a.m.*
Heyes Hall, Weston
Welfare Centre—*Fri. p.m.*

Miss W. G. Grimstone,
Rockville,
Cote Green Road,
Marple Bridge

Macclesfield M.B.
(South East District)

Hurdsfield House, Macclesfield
Welfare Centre—*Thurs. p.m.*
Ante-Natal Clinic—*2nd Wed. p.m.*
Preparation Class—*3rd Wed. p.m.*
Screening Clinic—*2nd Wed. a.m.*
Pierce Street, Macclesfield
Eye Clinic—*1st Man. p.m., 1st, 3rd & 4th*
Tues p.m. 4th Thurs. a.m.

There is also a part-time School Nurse,
Mrs. P. Swindells,
63, Byron Street,
Macclesfield

Sanders Square, Macclesfield
Ante-Natal Clinic—*4th Wed. p.m.*
52 Bridge Street, Macclesfield
Screening Clinic—*3rd Wed. a.m.*

DISTRICT No. 24a

Miss L. Jacks,
33, Abbey Road,
Sandbach

Sandbach U.D. (W. & N. Wards) Platt Avenue, Middlewich Road, Sandbach
Bradwall (Tel. Sandbach 970)
Elton
Welfare Centre—*Tues. p.m. & 1st & 3rd*
Tues. a.m.

Preparation Class—*Alt. Fri. p.m.*
Screening Clinic—*Alt. Wed. a.m.*
Eye Clinic—*2nd, 3rd & 4th Man. p.m.*
Immunisation Clinic—*1st Wed. p.m.*
(*Alt. months*)

DISTRICT No. 24b

Miss M. E. Slack,
28, Newlyn Avenue,
Congleton

Sandbach U. D. (E. Ward)
Arclid
Brereton

Platt Avenue, Middlewich Road, Sandbach
Welfare Centre—*Tues. p.m. and 2nd & 4th*
Tues. a.m.
Young Children's Clinic—*2nd Fri. a.m.*
Preparation Class—*Alt. Fri. p.m.*
M.A. Clinic—*1st & 3rd Fri. a.m.*
E.N.T. Clinic—*4th Fri. a.m.*
Immunisation Clinic—*1st Wed. p.m.*
(*Alt. months*)

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 25

Miss M. Corbishley,
32, Symondley Road,
Sutton,
Macclesfield

Congleton M.B.
(Buglawton & South Wards)
Moreton-cum-Alcumlow
Newbold Astbury

Park Street, Congleton
(Tel Congleton 2095)
Welfare Centre—*Mon. p.m.*
Young Children's Clinic—*2nd Thurs. p.m.*
Ante-Natal Clinic—*Fri. p.m.*
Screening Clinic—*Wed. a.m.*

Miss D. Austin,
120, High Street,
Talke Pits,
Stoke-on-Trent.

Congleton M.B.
(North & West Wards)

Park Street, Congleton
Welfare Centre—*Mon. p.m.*
M.A. Clinic—*Fri. a.m.*
Screening Clinic—*Wed. a.m.*
E.N.T. Clinic—*4th Tues. p.m.*
Eye Clinic—*2nd Wed. p.m.*
Park Street, Congleton
Immunisation Clinic—*1st Thurs. a.m.*
Young Children's Clinic—*2nd Thurs. p.m.*
War Memorial Hospital, Congleton
Ante-Natal Clinic—*1st & 3rd Wed. p.m.*

The Health Visitors take the Clinics listed opposite, alternately.

DISTRICT No. 25b

Miss B. Richardson,
The White House,
Crewe Road,
Alsager, Stoke-on-Trent

Smallwood
Odd Rode
Church Lawton
Alsager (East Ward)

(Tel. Alsager 395)

Methodist Sunday School, Mow Cop
Welfare Centre—*1st & 3rd Wed. p.m.*
The Institute, Rode Heath
Welfare Centre—*2nd & 4th Mon. p.m.*
Village Hall, Scholar Green
Welfare Centre—*2nd & 4th Wed. p.m.*
15 Centre Court, Alsager
Preparation Class—*Thurs. p.m.*
Screening Clinic—*1st & 3rd Mon. p.m.*
E.N.T. Clinic—*4th Fri. p.m.*

DISTRICT No. 26a

Mrs. M. B. Batty,
14, Parrswood Court,
Manchester, 20
(Tel. Didsbury 5429)

Cheadle and Gatley U.D.
(Cheadle Hulme (S) and
Adswold Wards)

All Saints' Parish Room, Cheadle Hulme
Welfare Centre—*Tues. p.m.*
Screening Clinic—*2nd Tues. a.m.*
Eye Clinic—*2nd & 3rd Thurs. a.m.*
Mission Hall, Adswold
Welfare Centre—*1st & 3rd Mon. p.m.*
Brookfield, Wilmslow Road, Cheadle
E.N.T. Clinic—*4th Wed. a.m.*

DISTRICT No. 26b.

Miss W. C. Heron,
83, Turves Road,
Cheadle Hulme
Stockport

Cheadle and Gatley U.D.
(Cheadle East and West Wards)

Brookfield, Wilmslow Road, Cheadle
(Tel. Gatley 6290)
Welfare Centre—*Tues. p.m.*
Young Children's Clinic—*3rd Wed. p.m.*
M.A. Clinic—*1st & 2nd Mon. a.m.*
Screening Clinic—*Wed. a.m.*
Eye Clinic—*Tues. a.m.*

DISTRICT No. 26c

Miss N. Heenan,
146, Edgeley Road,
Cheadle Heath,
Stockport

Cheadle and Gatley U.D.
(Gatley Ward)

Brookfield, Wilmslow Road, Cheadle
Ante-Natal Clinic—*Mon. p.m.*
Preparation Class—*1st, 3rd & 5th Thurs. p.m.*
Y.M.C.A. Headquarters, Gatley
Welfare Centre—*2nd & 4th Thurs. p.m.*
Young Children's Clinic—*4th Wed. p.m.*
All Saints' Parish Room, Cheadle Hulme
Screening Clinic—*2nd Tues. a.m.*

DISTRICT 26d

Miss I. C. G. Harrison,
13, Victoria Avenue,
Cheadle Hulme,
Stockport
(Tel. Hulme Hall 1883)

Cheadle and Gatley U.D.
(Cheadle Hulme (N) Ward)

St. Andrew's Parish Hall, Orrishmere Estate
Cheadle Hulme
Welfare Centre—*2nd & 4th Mon. p.m.*
Brookfield, Wilmslow Road, Cheadle
Screening Clinic—*Wed. a.m.*

DISTRICT No. 26e,

Miss J. V. Smith,
Flat 2,
9, Mill Lane,
Northenden,
Manchester

Cheadle and Gatley U.D.
(Heald Green Ward)

Methodist Church, Heald Green
Welfare Centre—*Thurs. p.m.*

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 27a. Miss G. M. Bullough, 4, Belvoir Avenue, Hazel Grove, Stockport	Hazel Grove and Bramhall U.D. (North Ward)	253 London Road, Hazel Grove (Tel. Stepping Hill 3842/3) Ante-Natal Clinic—1st & 3rd Wed. p.m. Screening Clinic—4th Mon. p.m. Civic Hall, Hazel Grove Welfare Centre—Tues. a.m. & p.m. Young Children's Clinic—1st Tues. a.m.
DISTRICT No. 27b. Mrs. B. E. Crosby, 27, Earle Road, Bramhall, Stockport (Tel. Bramhall 1776)	Hazel Grove and Bramhall U.D. (Woodford and South Wards)	Methodist Sunday School Welfare Centre—1st & 3rd Mon. p.m. Screening Clinic—1st Thurs. p.m. (odd months) Brookdale Club, Bridge Lane, Bramhall Welfare Centre, 2nd & 4th Fri. p.m. Screening Clinic—1st Fri. p.m. (even months) Civic Hall, Hazel Grove M.A. Clinic—2nd Tues. a.m. Welfare Centre—4th Tues. a.m. 253 London Road, Hazel Grove Screening Clinic—3rd Fri. p.m.
DISTRICT No. 27c. Miss M. Berrisford, 59, Reddish Vale Road, Reddish, Stockport (Tel. Stockport 5683)	Hazel Grove and Bramhall U.D. (East Ward)	253 London Road, Hazel Grove Screening Clinic—3rd Fri. p.m. E.N.T. Clinic—1st Fri. p.m. (odd months) Eye Clinic—1st & 4th Thurs. a.m. Civic Hall, Hazel Grove Welfare Centre—1st & 3rd Tues. a.m. and Tues. p.m. Young Children's Clinic—1st Tues. a.m.
DISTRICT No. 28. Miss M. R. Adamson, 47 Ovenhouse Lane, Bollington, Macclesfield	Bollington U.D. Hurdsheld Macclesfield Forest	Rainow Sutton Wittdboardclough Wincle Wellington Road, Bollington (Tel. Boll. 2376) Welfare Centre—2nd & 4th Thurs. p.m. Rainow Welfare Centre— 1st & 3rd Wed. p.m. M.A. Clinic—1st Tues. a.m. Screening Clinic—Tues. a.m. (except 1st-) Eye Clinic—2nd Tues. p.m. Sanders Square, Macclesfield Sutton Welfare Centre—1st & 3rd Thurs. p.m.
DISTRICT No. 29a. Miss S. Morris, 47, Greenway, Romiley, Stockport	Bredbury and Romiley U.D. (Bredbury N. & S. Wards)	Lower Bent's Lane, Bredbury (Tel. Woodley 2892) Welfare Centre—Tues. p.m. Young Children's Clinic—1st Thurs. p.m. Ante-Natal Clinic—2nd & 4th Wed. p.m. Screening Clinic—4th Thurs. a.m. Eye Clinic—1st & 2nd Thurs. a.m. Leyfield Avenue, Romiley Screening Clinic—4th Tues. a.m.
DISTRICT No. 29b Mrs. A. D. Law, 23, Lynton Drive, off Andrew Lane, High Lane, Stockport	Bredbury and Romiley U.D. (Romiley, E. & W. Compstall and Woodley Wards)	Leyfield Avenue, Romiley (Tel. Woodley 2891) Welfare Centre—Wed. a.m. & Thurs. p.m. Young Children's Clinic—2nd Thurs. a.m. Preparation Class—Tues. p.m. Screening Clinic—4th Tues. a.m. Immunisation Clinic—4th Thurs. a.m. Lower Bent's Lane, Bredbury Screening Clinic—4th Thurs. a.m.
DISTRICT No. 29c Miss E. Plaiter, North View, New Mills Road, Birch Vale, Stockport Miss J. Jolley,* 113, Darley Avenue, Chorlton-cum-Hardy, Manchester, 21 Miss D. P. Flint,* North View, New Mills Road, Birch Vale, Stockport	Stalybridge M.B. (Lancashire Ward) Stalybridge M.B. (Staley Ward, exc. G.E. S.4) Stalybridge M.B. (Millbrook Ward)	Mechanics' Institute, Stalybridge (Tel. STA 2304) Welfare Centre—Tues. & Wed. p.m. Ante and Post-Natal Clinic—2nd, 3rd and 4th Thurs. p.m. Young Children's Clinic—1st Wed. a.m. Mechanics' Institute, Stalybridge Welfare Centre—Wed. p.m. Screening Clinic—Tues. p.m. Eye Clinic—2nd, 3rd & 4th Tues. a.m. Huddersfield Road, Millbrook, Stalybridge (Tel. STA 2544) Welfare Centre—Mon. p.m. Preparation Class—Wed. p.m. M.A. Clinic—Mon. a.m. Mechanics' Institute, Stalybridge Screening Clinic—Tues. p.m.

CIVIL PARISHES

CENTRES & CLINICS

District No. 29c—Cont.
Miss M. E. Mackenzie,*
33, Thorn Road
Bramhall,
Stockport

Stalybridge M.B.
(Dukinfield Ward, Staley
Ward, G.E. S.4)

Mechanics' Institute, Stalybridge
Welfare Centre—Tues. p.m.
M.A. Clinic—Mon. a.m.
Huddersfield Road, Millbrook
Welfare Centre—Mon. p.m.

* These health visitors also take on rota the
other clinic opposite.

Mechanics' Institute, Stalybridge
Ante and Post Natal Clinic—2nd, 3rd and
4th Thurs. p.m.

DISTRICT No. 30
Miss W. E. Beresford
87, Manchester Road,
Tintwistle
Hyde, Cheshire

Dukinfield M.B.
(Central Ward & West Ward
BB)

134 King Street, Dukinfield
(Tel. Ash. 3794)
Welfare Centre—Wed. & Thurs. p.m.
Screening Clinic—1st & 3rd Wed. a.m.

Miss. C. Hellings,
11, Shaw Hall Avenue,
Hyde

Dukinfield M.B.
(East Ward AE & AF)

134 King Street, Dukinfield
E.N.T. Clinic—4th Mon. p.m.
Eye Clinic—1st, 2nd & 4th Fri. p.m.

Mrs. M. Knowles,
189, Stamford Street,
Stalybridge

Dukinfield M.B.
(East Ward AD and West
Ward, BA)

134 King Street, Dukinfield
Welfare Centre—Wed. a.m. & p.m.
M.A. Clinic—Tues. a.m.
Screening Clinic—1st & 3rd Wed. a.m.
134 King Street, Dukinfield
Preparation Class—Mon. p.m.

The Clinic opposite is taken by the three Health Visitors
in turn.

DISTRICT No. 31a.
Miss D. Wood,
8, Marina Drive,
Rose Hill,
Marple,
Stockport

Longdendale U.D.
Tintwistle R.D.

Wedneshough Green, Hollingworth
Welfare Centre—1st & 3rd Thurs. p.m.
Midwives Clinic—Tues. p.m.
M.A. Clinic—Tues. p.m.
Screening Clinic—3rd Tues. a.m.
Immunisation Clinic—2nd Mon. p.m.
Christ Church School, Tintwistle
Welfare Centre—2nd & 4th Thurs. p.m.
Wesleyan School, Broadbottom
Welfare Centre—1st & 3rd Wed. p.m.

DISTRICT No. 31b.
Miss F. Lonsdale,*
50, Stockport Road,
Hyde
(Tel. Hyde 2339)

Hyde M.B.
(Godley Ward pt. i)

Parsonage Street, Hyde (Tel. Hyde 2828)
Welfare Centre—Wed. p.m.
Ante-Natal Clinic—Thurs. p.m.
Screening Clinic—2nd & 4th Tues. a.m.
Bayley Hall, Hyde
Screening Clinic—1st & 3rd Mon. p.m.
Bayley Hall, Hyde (Tel. Hyde 2265)
Welfare Centre—Fri. p.m.
Screening Clinic—1st & 3rd Mon. p.m.

Miss E. Evans,*
23, Bossington Close,
Offerton,
Stockport

Hyde M.B.
(Newton Ward pt. i)

Bayley Hall, Hyde
Welfare Centre—Tues. p.m.

Mrs E. M. Lowe,*
12, Mill Lane,
Hazel Grove,
Nr. Stockport
(Tel. Poynton 2665)

Hyde M.B.
(Godley Ward pt. ii,
Newton Ward pt. iii)

Miss M. Taylor,*
20, Pri.nrose Avenue,
Hyde
(Tel. Hyde 3207)

Hyde M.B.
(Werneth Ward,
Newton Ward pt. ii)

Parsonage Street, Hyde
Welfare Centre—Mon. & Wed. p.m.
Screening Clinic—3rd Tues. a.m.
Reform Club, Hyde (Tel. Hyde 2689)
Specialists Eye Clinic—1st Tues. a.m.,
3rd Fri. p.m.

*These Health Visitors also attend on rota the other
Clinic opposite.

Reform Club, Hyde
M.A. Clinic—Mon. a.m.

DISTRICT No. 32a.
Miss B. F. Sherratt,
Ashdene,
Leafield Road,
Disley,
Stockport
(Tel. Disley 2268)

Marple U.D.
(Ludworth, Mellor & North
Wards)

Memorial Park, Stockport Road, Marple
(Tel. Marple 1806)
Welfare Centre—Wed. p.m.
Young Children's Clinic—1st Wed. a.m.
Preparation Class—Fri. p.m.
M.A. Clinic—2nd Wed. a.m.
Screening Clinic—4th Wed. a.m.
Eye Clinic—3rd Thurs. a.m.
Methodist Sunday School, Marple Bridge
Welfare Centre—2nd & 4th Thurs. p.m.
Methodist Sunday School, Mellor
Welfare Centre—1st & 3rd Thurs. p.m.

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 32b. Miss B. Brewster, Spout House Farm, Strines, Stockport (Tel. Marple 1494)	Marple U.D. (Cent. & South Wards) Disley R.D.	Memorial Park, Stockport Road, Marple (Tel. Marple 1806) Welfare Centre—Wed. p.m. Screening Clinic—4th Wed. a.m. Village Hall, High Lane Welfare Centre—2nd & 4th Tues. p.m. Gleneil House, Disley (Tel. Disley 62) Welfare Centre—1st & 3rd Tues. p.m.
DISTRICT No. 33. Miss F. E. Kilbourn, Edendale, Buxton Road, Newtown. New Mills, Stockport	Adlington Kettlerhulme Lyme Handley	Pott Shrigley Poynton Park Lane, Poynton (Tel. Poynton 2127) Welfare Centre—Thurs. p.m. Young Children's Clinic—3rd Tues. p.m. Midwives Clinic—Mon. p.m. M.A. Clinic—3rd Tues. p.m. Screening Clinic—4th Tues. p.m. E.N.T. Clinic—Even months, 3rd Wed. p.m. Eye Clinic—2nd Tues. p.m.

HOME NURSES (157)

(Those marked * practise Midwifery)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Acton	Miss L. C. Jones*	The Grove, Acton, Nantwich	Nantwich 65571
Adlington	Mrs. K. A. Dawson*	Butley Hey, London Road, Prestbury, Macclesfield	Prestbury 89360
Alderley	Mrs. M. Topley*	9, Orchard Crescent, Welsh Row, Nether Alderley	Alderley Edge 2505
Alderley Edge	Miss M. M. Hatton*	Holly Croft, Row of Trees, Alderley Edge, Cheshire	Alderley Edge 3364
Aldford	Mrs. D. Mellor*	Nurse's Cottage, Aldford, Chester	Aldford 37
Alsager	Mrs. E. Weatherall	25, Cresswellshawe Road, Alsager, Stoke on Trent	Alsager 67
Altrincham	Miss D. Kershaw	61, Harcourt Road, Altrincham	Altrincham 2550
	Mrs. A. Warburton	59, Ashfield Road, Altrincham	Altrincham 0138
	Mrs. S. J. McGrath	1, Hawthorn Road, Hale, Altrincham	Altrincham 0906
	Mrs. L. M. Quint	51, Greenhill Road, Timperley	Ringway 2607
	Mrs. I. Hall	353, Oldfield Road, Altrincham	Altrincham 0365
Ashton	Miss M. McClement-Williams*	District Nurse's Home, Smithy Lane, Mouldsworth, Chester	Manley 268
Ashton-on-Mersey	Miss B. Kitchen	13, Harcourt Road, Sale, Cheshire	Sale 5764
Astbury	Miss V. Spencer*	Black & White Cottage, Astbury, Congleton	Congleton 3451
Audlem	Miss M. H. Hunter*	The Gables, Audlem, Crewe	Audlem 422
Barnston	Mrs. S. A. Cash*	Cherry Lodge, Beacon Lane, Heswall	Heswall 4037
Barnton	Mrs. S. M. Dorling*	5, Cross Street, Barnton, Northwich	Northwich 4080
Barrow	Miss G. Jones*	Minniffordd, High Street, Tarvin, Chester	Tarvin 240
	Miss B. Walker	Minniffordd, High Street, Tarvin, Chester	Tarvin 240
Bebington	Mrs. A. Holesak	216, Higher Bebington Road, Higher Bebington	Mountwood 1840
	Mrs. I. M. Eden	5, Anscot Avenue, Bebington, Wirral	Rock Ferry 1925
	Mrs. F. E. Harrison	14, Asterfield Avenue, Higher Bebington, Wirral	Rock Ferry 2441
	Miss M. G. Griffiths	10, Kempson Terrace, Bebington	Bromborough 2480
	Mr. E. Cochrane	215, Teehey Lane, Bebington	Mountwood 3516
Bickerton	Miss A. Jones*	20, Mill Grove, Bulkeley, Malpas	Cholmondeley 217
Bollington	Miss A. Barlow*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington 3179
	Mrs. M. Wood	Ingersley Vale Cottages, Bollington Macclesfield	Bollington 3204
Bramhall	Miss N. D. Entwistle*	81, Ack Lane East, Bramhall, Stockport	Bramhall 2377
	Mr. D. Hornby	126, Moor Lane, Woodford, Bramhall	Bramhall 1691
	Miss A. Curry*	47, Swann Lane, Cheadle Hulme	Hulme Hall 1325
	Mrs. C. M. Renshaw*	33, Lumb Lane, Bramhall	Bramhall 3536
Bredbury	Mrs. S. A. Christmas	9, Merton Avenue, Bredbury Stockport	Woodley 3778
	Miss W. Watkins	1, Barker Road, Bredbury	Woodley 3631

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Bromborough	Miss F. Baughan	10, Greenville Crescent, Bromborough, Wirral	Bromborough 3435
	Mrs. E. Kelly	2, Kelsall Avenue, Eastham, Wirral	Eastham 2606
Buglawton	Miss M. S. Bowman*	4, High Lowe Avenue, Buglawton, Congleton	Congleton 3444
Bunbury	Mrs. J. A. O'Donnell*	8, Wyche Lane, Bunbury	Bunbury 266
	Mrs. G. M. Town*	Pear Tree Cottage, Burton, Neston, Wirral	Burton 230
Castle, Northwich			
Cheadle	Mrs. W. Warcing*	6, Waldon Avenue, Cheadle, Cheshire	Gatley 3904
Cheadle	Miss C. Maher*	58, Ladybridge Road, Cheadle Hulme, Stockport	Hulme Hall 3261
Hulme			
Chelford	Mrs. E. Gornall*	9, Robin Lane, Chelford, Macclesfield,	Chelford Relief 216
Cholmondeley	Miss M. Brocklehurst*	Nurse's Cottage, Bickley Moss, Whitchurch	Cholmondeley 268
Combermere	Miss W. A. George*	1, Council Houses, Newhall Lane, Aston, Nantwich	Aston (Nantwich) 286
Congleton	Miss B. Clinch	24, The Westlands, Congleton	Congleton 2104
Crewe	Mrs. L. Crawford	11, Stanhope Avenue, Crewe	Crewe 55709
	Mrs. M. L. C.		
	de Wyrall	639, West Street, Crewe	Crewe 4705
	Mrs. E. M. Bailey	27, Franklyn Avenue, Crewe	Crewe 4621
	Miss J. Sewell	22a, Heathfield Avenue, Crewe	Crewe 4163
Daresbury	Mrs. H. M. Shaw	9, Buxton Avenue, Crewe	Crewe 3406
	Miss G. Roberts*	Delph Cottage, Daresbury, Warrington	Moore 266
Davenham	Miss M. Buckley*	437, London Road, Davenham, Northwich	Northwich 3027
Delamere	Miss D. E. Joseph*	Wayside, Cotebrook, Tarporley	Little Budworth 391
Disley	Mrs. M. G. Rolls*	7, Bentside Road, Disley	Disley 2176
Doddington	Miss B. E. Overson*	15, Gorsey Bank Crescent, Wybunbury, Nantwich	Wybunbury 329
Dodleston	Mrs. M. E. Pilliner*	"Omega", Eaton Road, Eccleston	Eccleston 200
Dukinfield	Miss E. M. Ambler	212, Astley Street, Dukinfield	Ashton 1689
	Miss O. Morton	28, Kenyon Avenue, Dukinfield	Stalybridge 2562
Dunham	Mrs. O. Chapman	35, Bucklow Avenue, Partington, Urmston, Manchester	Irlam 264
Massey			
Ellesmere	Miss M. I. Raby	12, Thamesdale, Whitby, Wirral	E. Port 2542
Port	Mrs. A. Engstrom	66, Queen Street, Ellesmere Port	E. Port 2543
Farndon	Miss K. E. Hewitt*	14, Parker Drive, Farndon, Chester	Farndon 286
Frodsham	Mrs. M. A. Irwin*	10, Kingsway, Frodsham	Frodsham 2109
Gawsworth	Mrs. C. L. Ormsby*	10, Kingsway, Frodsham	Frodsham 2109
	Mrs. A. Parsons*	Newlands, Woodhouse Lane, Gawsworth,	Macclesfield 2187
Goostrey	Miss G. Magee*	24, Booth Bed Lane, Goostrey, Crewe	Holmes Chapel 3244
Grappenhall	Mrs. D. I. Reeves	29, Kildonan Road, Grappenhall	Grappenhall 1076
Great	Mrs. D. Sherratt*	Rose Bank, Marbury Lane, Comberbach, Northwich	Comberbach 279
Budworth			
Hale Barns	Mrs. J. Knowles	14, Rowfield Drive, Newall Green, Manchester 23	Mercury 5102
Halton	Miss A. B. Porter*	47, Main Street, Halton, Runcorn	Runcorn 2597

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Handforth	Miss M. E. Bailey*	Oak Brow Cottage, Styal, Wilmslow, Cheshire	Wilmslow	2738
Hartford	Mrs. E. T. Dorman	Arderne House, Hodge Lane, Hartford, Northwich	Northwich	4513
	Mrs. M. McAnulty	133, Chester Road, Northwich		
Haslington	Miss D. Williams*	33, Cartwright Road, Haslington,	Crewe	2693
Hazel Grove	Miss S. E. Ratcliffe*	62, Talbot Street, Hazel Grove	Stepping Hill	2292
	Miss W. M. Curtis*	62, Talbot Street, Hazel Grove	Stepping Hill	2292
Heald Green	Miss L. Broadhurst	22, Ravenoak Rd., Cheadle Hulme	Hulme Hall	2991
Helsby	Mrs. N. E. Stewart*	Thorns, Alvanley Road, Helsby		
		Warrington	Helsby	143
Heswall	Miss C. M. Edwards*	1, Shrewsbury Road, Heswall,		
		Wirral	Heswall	710
Higher Bebington	Mrs. M. R. Heatley	203, Teehey Lane, Bebington, Wirral	Mountwood	1126
Higher Sutton	Miss M. M. Brown*	53, Walker Lane, Sutton, Macclesfield	Sutton	363
High Lane	Mrs. J. Banks*	Hill View, Windlehurst Road, Hawk Green, Marple	Marple	385
Hollingworth	Mrs. M. A. Clarke	29, Heather Grove, Hollingworth	Mottram	2346
Holmes Chapel	Miss L. B. Blunsum*	19, West Way, Holmes Chapel, Crewe	H. Chapel	2226
Hoylake	Mrs. H. M. Kay	43, Cable Road, Hoylake	Hoylake	6195
	Miss E. Foster*	18a, Market Street, Hoylake	Hoylake	2925
Hyde	Miss G. McClean	17, Henry Street, Hyde	Hyde	2488
	Miss H. Sutton	17, Henry Street, Hyde	Hyde	2488
Ince	Miss J. Potter*	Lynton House, Elton, Chester	Thornton-le- Moors	289
Irby South	Miss M. E. Herbert*	10, Greenway, Pensby, Heswall, Wirral	Irby	1779
Knutsford	Mrs. M. O. Stone*	Flat 22, Townfields, Thorneyholme, Knutsford	Knutsford	2287
	Miss M. E. Tierney*	Flat No. 1, Westfield Drive, Knutsford	Knutsford	3504
Little Leigh	Miss E. M. Fishwick*	14, Brakeley Lane, Little Leigh, Northwich	Comberbach	275
Little Sutton	Mrs. V. Sandbach	23, Hillcrest Road, Little Sutton, Wirral	Hooton	2110
Lostock Gralam				
Lymm	Mrs. W. F. Raad	26, Highfield Road, Lymm, Warrington	Lymm	116
	Mrs. A. B. James	61, Star Lane, Lymm, Warrington	Lymm	399
Macclesfield	Mrs. K. M. Ashmore	50, Saville St., Macclesfield	Macclesfield	3643
	Miss M. Otter	11, Northgate Av., Macclesfield,	Macclesfield	2169
	Mrs. M. Earlam	72, Earlsway, Weston, Macclesfield	Macclesfield	4887
Malpas	Mrs. D.M.T. Brooks*	15, The Oathills, Malpas	Malpas	396
Marple	Miss C. Turner*	19, Greenbank Crescent, Marple, Stockport	Marple	361
Marple Bridge	Miss N. Greenleaf*	The Cottage, 66, Lower Fold, Marple Bridge, Stockport	Marple	166
Marston	Miss B. Parry*	20, Mere Road, Marston	Comberbach	425
Middlewich	Mrs. M. Taylor*	32, Sutton Lane, Middlewich	Middlewich	2350
	Miss B. Breeze*	11, Coronation Road, Middlewich	Middlewich	2549

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Mobberley	Mrs. B. Horry*	18, Edenfield Av., Mobberley, Knutsford	Mobberley	31322
Mottram	Mrs. I. M. Huyton	25, Stockport Road, Mottram, Manchester	Mottram	21838
Moulton	Miss V. R. Watts*	11, Regent Street, Moulton, Northwich	Winsford	23465
Nantwich	Miss E. Larnach* Miss M. Mansfield*	} 20, Shrewbridge Crescent, Nantwich	Nantwich	65294
Nantwich			Nantwich	65294
Neston				
Norley	Miss I. E. Belsham*	Nurse's Bungalow, Crabmill Lane, Norley, Warrington	Kingsley	2655
Odd Rode	Miss H. Barry*	2, Drenfell Road, Scholar Green, Stoke-on-Trent	Kids Grove	29299
Poynton	Mrs. D. M. Shaw*	Hazeldene, Green Lane, Hr. Poynton	Poynton	27711
Poynton	Miss A. Cheetham*	82, Barnaby Road, Poynton, Stockport	Poynton	21377
Prestbury	Miss A. M. Garry*	7, Bollinside, Prestbury, Macclesfield	Prestbury	89464
Rainow	Miss A. K. Keates*	Oakwood, Chapel Lane, Rainow, Macclesfield	Bollington	21844
Romiley	Miss E. Whaite*	9, Windsor Grove, Romiley	Marple	534
Runcorn	Mrs. A. A. Marsh	27, Perrin Avenue, Weston Point, Runcorn	Runcorn	3730
Runcorn	Mrs. F. Fowles	26, Hazel Avenue, Runcorn	Runcorn	28499
Runcorn	Mrs. J. E. Livesey	8, Lynden Grove, Runcorn	Runcorn	3260
Sale	Mrs. S. Bruce	14, St. George's Cres., Timperley	Sale	5981
Sale	Mrs. M. Dutton	255, Marsland Road, Sale	Pyramid	2019
Sale	Mrs. R. Adams	79, Temple Road, Sale	Sale	84538
Sandbach	Mrs. I. Hoyle*	9, Offley Avenue, Sandbach	Sandbach	8522
Sandbach	Mrs. M. Wainwright	87, Platt Avenue, Sandbach	Sandbach	256
Sandiway	Miss S. Rhodes*	The Cottage, Glebe Road, Cuddington, Northwich	Sandiway	22522
Saughall	Mrs. S. M. Hills*	9, Lodge Lane, Saughall, Chester	Saughall	200
Shavington	Mrs. E. N. Feather	21, Edwards Avenue, Shavington	Crewe	72344
Stalybridge	Mrs. E. H. Slater	295, Huddersfield Road, Stalybridge	Stalybridge	24488
Stalybridge	Mrs. A. R. Porter	27, Copley Avenue, Stalybridge	Stalybridge	3188
Stalybridge	Mr. E. B. Jones	21, Shakespeare Av., Millbrook, Stalybridge	Stalybridge	23155
Stalybridge	Miss D. H. Garner	572, Huddersfield Road, Heyheads, Stalybridge	Mossley	2688
Stapeley	Miss E. Reilly*	22, Jackson Avenue, Nantwich	Nantwich	65570
Stockton Heath	Miss V.E. O'Donnell	104, Fairfield Road, Stockton Heath	Stockton Heath	1721
Stockton Heath	Mrs. O. Saunders	12, Worsley Road, Walton, Warrington	St'k'on Heath	896
Stockton Heath	Miss W. Maher	44, Whitfield Avenue, Bruche, Warrington	St'k'on Heath	573
Stretton	Miss G. Meredith*	3, Beverley Avenue, Appleton, Warrington	Tarporley	553
Tarporley	Mrs. M. Stewart*	99, High Street, Tarporley		

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Tattenhall	Mrs. D. M. Harper*	76, Tattenhall Road, Tattenhall	Tattenhall 387
Tilston	Mrs. I. A. Haynes*	Fern Lea, Tilston, Malpas	Tilston 249
Timperley	Miss M. B. McGrath	34, Keswick Road, Broomwood Estate, Timperley, Altrincham	Ringway 2912
	Miss J. Ferguson	10, Thorley Drive, Timperley, Altrincham	Ringway 2139
Upton	Mrs. E. C. Iball	73, Upton Drive, Upton-by-Chester	Chester 27897
Vicars Cross and Huntington	Mrs. R. I. Croome	40, Vicars Cross, Chester	Chester 35533
Weaverham	Mrs. E. L. L. Hampson	Sunfield, Forest Road, Cuddington, Northwich.	Sandiway 2163
West Kirby	Miss J. Howes	27, Burlingham Avenue, Grange, West Kirby, Wirral	Hoylake 1203
Wheelock	Miss E. E. Gerrard*	647, Crewe Road, Wheelock, Sandbach	Sandbach 281
Willaston (Wirral)	Miss G. Lloyd*	The Grey Cottage, Hooton Road, Willaston, Wirral	Willaston 2112
Willington	Mrs. M. S. Vickers*	9, Carter Avenue, Kelsall, Chester	Kelsall 286
Wilmslow	Miss E. B. Grindrod*	23, Kings Close, Wilmslow, Cheshire	Wilmslow 5525
	Miss P. I. Royle*	17, Bourne Street, Wilmslow Cheshire	Wilmslow 2615
		17, Bourne Street, Wilmslow, Cheshire	Wilmslow 2615
Winsford		92, Weaver Street, Winsford	Winsford 2228
	Miss P. M. Jones*	8, Wellfield, Wharton Road, Winsford	Winsford 2766
	Miss I. A. Bremner*	204 Ways Green, Winsford	Winsford 2548
Wistaston	Mrs. H. M. Burgess	34, Elm Close, Wistaston	Crewe 2431
Witton	Mrs. I. Owen	Dinastre, Lime Av., Leftwich, Northwich	Northwich 3093
Worleston	Mrs. R. E. Fort*	Laundry Cottage, Rookery Park, Worleston, Nantwich	Nantwich 65941
Northwich Area	Mr. R. D. Evans	15, Woodside Terrace, Leftwich, Northwich	Northwich 3310

Part-time and Relief Nurses

Mrs. M. J. Bennett,	Gorston, Sandy Lane, Little Neston	Neston	1185
Mrs. M. M. Brocklehurst*	Sidmere, Dale Brow, Prestbury Macclesfield	Prestbury	89811
Mrs. M. L. Buckley*	7, Ascol Drive, Plumley, Knutsford	Northwich	2626
Mrs. M. Chesters	23, Davenport Avenue, Crewe	Crewe	2130
Mrs. E. Clarke	12, Brookside Avenue, Poynton, Stockport	Poynton	2506
Miss E. J. Cliff	6, Ivy Lane, Alsager	Alsager	970
Mrs. B. Collier	—, Beech Avenue, Rosehill, Marple, Stockport		
Mrs. S. Davenport	49, Ermine Road, Newton Park, Chester	Chester	28693
Mrs. A. L. Davies	22, Chestnut Avenue, Shavington, Crewe	Crewe	7262

Relief (contd.)

Mrs. D. Davison*	26, Cornelius Drive, Pensby Hewall, Wirral	Irby	1639
Mrs. V. M. Dutton*	Walkers Green Farm, Sproston, Middlewich	Middlewich	174
Mrs. D. M. Edwards	Yew Tree House, Liverpool Road, Neston, Wirral	Neston	2017
Mrs. J. Fell	118, Green Lane, Timperley	Ringway	2491
Mrs. D. Frame	6, Thorneyholme Drive, Knutsford	Knutsford	2558
Mrs. F. Fuller	Avondale, 1, Griffiths Road, Lostock Gralam	Northwich	3378
Mrs. G. B. Gorick	12, Etherow Avenue, Romiley		
Mrs. E. L. Hartwell	28, Alexandra Grove, Runcorn	Runcorn	4628
Mrs. C. M. Hibbert*	2, Dyar Terrace, Winnington, Northwich	Northwich	4529
Mrs. H. M. Jackson	44, Cheadle Road, Cheadle Hulme	Hulme Hall	3423
Mrs. H. M. Johnson	21, Fir Tree Drive, Newton, Hyde	Hyde	3402
Mrs. J. Jones	12, Forest Road, Heswall	Heswall	1180
Mrs. J. H. Jones	115, Hyde Road, Woodley, Stockport	Woodley	3685
Mrs. F. Loveridge	5, Glen Rise, Timperley	Ringway	4452
Mrs. D. Macrae	42, Greenway, Greasby, Wirral	Arrowebrook	1239
Mrs. E. A. Manion	90, Chester Road, Grappenhall, Warrington	Grappenhall	759
Mrs. V. Marshall	53, Cheadle Road, Cheadle Hulme	Hulme Hall	3752
Mrs. F. Massey	1, Woodsome Drive, Whitby, Ellesmere Port	Ellesmere Pt.	2437
Miss L. Mayoh*	Redwood, 16, Waterside Road, Marple	Marple	1016
Mrs. B. A. McHugh	443, Styal Road, Moss Nook, Wythenshaw, Manchester, 22		
Mrs. M. McNamee	231, Brooklands Road, Manchester, 23	Pyramid	2514
Mrs. P. V. Moores	11, Rainow Road, Higher Hurdsfield, Macclesfield	Macclesfield	5639
Mrs. E. M. Morris	8, Meadow Cottages, Congleton		
Mrs. L. J. Nutt	7, Wrenbury Hall Drive, Wrenbury, Nantwich		
Mrs. F. M. Pierlejewska	41, Earle Road, Bramhall, Stockport	Bramhall	2955
Mrs. M. Pugh	26, Ferguson Avenue, Overpool, Ellesmere Port		
Mrs. M. Reece,	26, George Street, Barnton Northwich		
Mrs. M. Rhodes	27, St. Wilfred's Drive, Grappenhall, Warrington	Grappenhall	1276
Mrs. R. T. Shine	38, Greenbank Road, West Kirby, Wirral	Hoylelake	7574
Mrs. M. J. Sibbitt	18, Linda Drive, Hazel Grove	Stepping Hill	1185
Mrs. W. F. Stenning	1, Hillcrest Drive, Little Sutton		
Mrs. B. Sturdy	79, Townfield Lane, Bebington	Rock Ferry	5341
Mrs. S. V. Worrall	91, Carrington Lane, Ashton-on-Mersey, Sale	Sale	5328

COUNTY MIDWIVES

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>	
Alsager	Mrs. E. L. Pedley (33)	6, Audley Road, Alsager, Stoke-on-Trent	Alsager	583
Altrincham	Mrs. A. Warburton (40)	220 Manchester Road, Broadheath, Altrincham	Altrincham	1484
	Miss M. E. Cassidy (41)	26, Grove Lane, Timperley, Altrincham	Ringway	3495
Bebington	Mrs. C. R. Green (5)	152, Town Lane, Bebington	Mountwood	1747
	Mrs. A. Harwood (6)	84, Thorburn Road, New Ferry	Rock Ferry	4621
	Mrs. D. Clarke (7)	922, New Chester Road, Bromborough	Eastham	2368
	Miss B. A. Rimmer (4)	15, Stretton Close, Eastham	Eastham	2022
Bredbury	Miss M. M. Leigh (57)	13, George Lane, Bredbury, Stockport	Woodley	2754
	Miss M. E. Morris (57a)	13, George Lane, Bredbury, Stockport	Woodley	2754
Cheadle	Mrs. A. Tompkins (49)	62, Wilmslow Road, Cheadle	Gatley	3551
	Mrs. S. Henry (48)	2, Alder Road, Cheadle	Gatley	5759
	Miss R. McMechan (49a)	45, Neal Avenue, Heald Green	Mercury	1381
	Miss R. L. Holgate (48a)	131, Queensway, Heald Green	Mercury	4912
Congleton	Miss D. H. Wright (47)	Ewanrigg, Giantswood Lane, Congleton	Congleton	3240
Crewe	Miss E. A. Bimson (27)	20, Gatefield St., Crewe	Crewe	2239
	Miss D. B. Sowden (29)	22a, Heathfield Ave., Crewe	Crewe	4163
	Mrs. E. Weston (30)	19, Nelson Street, Crewe	Crewe	3110
	Miss A. V. Ruge (31a)	199, Edleston Road, Crewe	Crewe	3701
Dukinfield	Miss L. W. O'Hara (62)	Princess Villa, Princess Street, Dukinfield	Ashton	4874
	Miss L. Bradley (63)	24, Morar Road, Dukinfield	Ashton	4261
Ellesmere Port	Miss E. Bowyer (9)	71, Glenwood Road., Little Sutton, Wirral	Hooton	2689
	Mrs. F. E. Walker (9a)	80, Childer Crescent, Little Sutton	Hooton	3227
	Mrs. M. H. Bendell (10)	Lyndale, 6, Palm Grove, Sunny Haven Estate, Whitby, Ellesmere Port	Ellesmere Port	1982
	Mrs. V.E. Corson (11)	40, Wilkinson Street, Ellesmere Port	Ellesmere Port	3146
	Mrs. E. Evans (12)	85, Grace Road, Ellesmere Port	Ellesmere Port	1188
	Miss N. Evans (14)	2, Woodchurch Lane, Ellesmere Port	Ellesmere Port	2351
	Miss I. N. Willis (13)	1, Mallory Road, Ellesmere Port	Ellesmere Port	2964
Grappenhall	Miss E. Tinker (21)	30, Georges Crescent, Grappenhall Warrington	Grappenhall	275
Hale and Hale Barns	Miss K. Coates (40a)	26, Grove Lane, Timperley, Altrincham	Ringway	6263
Hartford	Mrs. P. E. Edwards (23a)	28, Stones Manor Lane, Hartford, Northwich	Northwich	4737
Hazel Grove	Miss F. W. Hampson (50)	335, London Road, Hazel Grove, Stockport	Stepping Hill	3131
Hollingworth	Mrs. K. O'Grady (66)	6, Claylands Close, Hollingworth, Manchester	Mottram	3313
Hoylake and West Kirby	Miss Mona Williams (1)	1, Trinity Road, Hoylake, Wirral	Hoylake	3084
	Mrs. E. Jemmett (2)	58, Gresford Avenue, West Kirby, Wirral	Hoylake	1552
	Miss G. Wotton (3)	103, Lloyd Drive, Greasby Wirral	Arrowebrook	1079

COUNTY MIDWIVES (contd.)

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>	
Hyde	Mrs. E. Hudson (64)	72, Pennine Road, Woodley	Woodley	4033
	Miss M. Coote (66a)	3b, Hallbottom Street, Hyde	Hyde	1161
	Mrs. M. Williams (65)	10, Paddock Road, Cheetham Fold Estate, Hyde	Hyde	3441
Lymm	Miss J. Pike (34)	21, The Crescent, Lymm, Warrington	Lymm	725
Macclesfield	Mrs. B. J. Whittaker (52)	27, Cottage Street, Macclesfield	Macclesfield	3766
	Miss F. A. Scrivens (53)	Flat 4, Sunny Bank, London Rd., Macclesfield	Macclesfield	3853
	Mrs. A. Watson (54)	18, Surrey Road, Macclesfield	Macclesfield	4455
	Mrs. C. H. Doody (55)	Norwood, Blakelow Road, Macclesfield	Macclesfield	5217
	Miss Y. Plant (56)	79, Oxford Road, Macclesfield	Macclesfield	6533
	Miss J. M. Barber (56a)	17, Arlington Drive, Macclesfield	Macclesfield	5929
	Miss D. Price (8)	Gorston, Sandy Lane, Little Neston, Wirral	Neston	1185
Northwich	Mrs. W. A. Place (24)	22, Fairfield Road, Leftwich, Northwich	Northwich	3050
	Miss D. I. Price (24a)	38, Water Street, Northwich	Northwich	2314
Partington	Miss H. Lawrie (43)	37, Bucklow Avenue, Partington, Urmston, Manchester	Irlam	2274
	Mrs. C. K. Clare (43a)	Thornlea, Manchester Rd., Partington, Urmston, Manchester	Irlam	3892
Runcorn	Miss E. M. Grice (17a)	40, Norman Road, Runcorn	Runcorn	3602
	Miss P. Noon (19)	73, Oxford Road, Runcorn	Runcorn	2881
	Mrs. P. Farrell (17)	134, Heath Road South, Weston, Runcorn	Runcorn	3707
Sale	Mrs. J. Capper (18)	10, Stanley Villas, Runcorn	Runcorn	2556
	Mrs. M. Butterworth (38)	45, Alexandra Road, Sale	Sale	2571
	Miss P. M. Toomey (36)	22, George's Road, Sale	Sale	7033
Sandbach	Mrs. M. McGrath (37)	2, Reading Drive, Sale	Sale	2445
	Miss M. Beatty (45)	5, Coronation Crescent, Sandbach	Sandbach	731
Stalybridge	Miss H. Sowerbutts (58)	572, Huddersfield Road, Heyheads, Stalybridge	Mossley	268
	Miss N. Robinson (59)	6, Acres Lane, Stalybridge	Stalybridge	2821
	Mrs. F. Dent (60)	16, Ash Grove, Stalybridge	Stalybridge	2281
Stockton Heath	Mrs. J. M. Arthur (22)	15, Southern Street, Stockton Heath	Stockton Heath	74
Upton and Vicar's Cross	Miss C. Brierley (15)	Greystones, Quarry Lane Christleton, Chester	Chester	35942
	Miss I. B. Jones (16)	18, Bache Avenue, Liverpool Road, Chester	Chester	21097
Weaverham	Miss J. Wolahan (23)	49, Wallerscote Road, Weaverham, Northwich	Weaverham	2116
Wilmslow	Miss F. Marsden (67)	1, Prescott Rd., Lacey Green Estate, Wilmslow	Wilmslow	5577
	Mrs. T. E. Salami (68)	51, Pickmere Rd., Handforth	Wilmslow	3120
Winsford	Mrs. E. M. Jones (69)	2, Westlands Rd., Middlewich	Middlewich	2311

CEREBRAL PALSY TEAM

<i>Physiotherapist</i>	-	-	-	Joyce Urmson
<i>Occupational Therapist</i>	-			Annabel Noake

CHILD GUIDANCE SERVICE

<i>Child Psychiatrists</i>	.....	.....	.....	J. Erulkar, M.B., B.S., D.C.H., M.R.C.P., D.P.M. K. M. Fraser, M.B., CH.B., D.C.H., D.P.M. D. M. Zausmer, B.Sc., M.B., B.S., D.P.M.
<i>Psychologists</i>	.....	.....	.....	T. W. Crabtree Elizabeth Long Nora Scott (part-time) J. Walker Christine Potter (part-time)
<i>Psychological Social Workers</i>	.....			Ellen Howitt Phyllis Redfarn Christabel Walker

PERIPATETIC TEACHERS OF THE DEAF

J. Buckingham

SPEECH THERAPISTS

Gillian Barlow	Margaret Johnson
Susan Barlow	Kathleen Jones (part-time)
Rayleen Eaton	Melba Loynes (part-time)
Gillian Howard	

DOMESTIC HELP SUPERVISORS

<i>Division</i>	<i>Supervisor</i>
Crewe and Nantwich	Joan Clarke
Deeside and Bebington	Joan Cargill
Hyde, Stalybridge & Dukinfield	Frances Dobson
Mid-Cheshire	Freda Moore
N.E. Cheshire	Ada Sutton
Macclesfield and S.E. Cheshire	Joan Cheetham
S.W. Cheshire	Dorothy Fellowes
Altrincham, Sale and Lymm	Nora Mawby
Runcorn	Dorothy Shepherd
Cheadle and Wilmslow	Catherine Rimmer





MENTAL WELFARE OFFICERS

District	Area	Office Address	Senior Mental Welfare Officer	Mental Welfare Officers	
No. 1 Wirral	BEBINGTON M.B. HOYLAKE U.D. WIRRAL U.D. NESTON U.D.	218, Bebington Road, Bebington Telephone:—Rock Ferry 4243/4	Mr. E. M. Harborow, The Allports, Allport Road, Bromborough. Telephone:—Bromborough 1620	Mrs. C. Ledsome, 21, Latchford Road, Gayton Heswall. Telephone:—Heswall 2011	Mr. E. S. Hughes, 6, Newton Drive, Newton, West Kirby. Telephone:—Hoylake 7830
No. 2 West Cheshire	ELLESMERE PORT M.B. CHESTER R.D. TARVIN R.D.	55, Hoole Road, Chester Telephone:—Chester 22299	Mr. F. H. Mills, Northwood, Millfields, Nantwich Telephone:—Nantwich 65545	Mr. H. Q. Dowland, 3, Upton Drive, The Bache, Chester Telephone:—Chester 20091	Mrs. C. E. Murphy, 24, Lodge Lane, Saughall, Chester Telephone:—Saughall 466
No. 3 Runcorn and Lymm	RUNCORN U.D. RUNCORN R.D. LYMM U.D.	District Offices, Waterloo Road, Runcorn Telephone:—Runcorn 2608	Mr. H. Holden, 79, Victoria Road, Runcorn Telephone:—Runcorn 3747	Mr. A. Braddock, 16, Rilcy Drive, Runcorn Telephone:—Runcorn 4127	
No. 4 Mid Cheshire	NORTHWICH U.D. WINSFORD U.D. MIDDLEWICH U.D. NORTHWICH R.D.	Brunner Guildhall, High Street, Winsford Telephone:—Winsford 3346	Mr. E. Platt, Kensyd, Delamere Street, Winsford Telephone:—Winsford 3352	Mrs. I. Leslie, 2, Vale Road, Hartford, Northwich. Telephone:—Northwich 5137	
No. 5 Crewe and Nantwich	CREWE M.B. NANTWICH U.D. NANTWICH R.D. ALSAGER U.D. SANDBACH U.D.	201, Edleston Road, Crewe Telephone:—Crewe 2478	Mr. R. E. Broach, 180, Crewe Road, Alsager. Telephone:—Alsager 174	Mr. G. E. Lanceley, 14, Lauriston Avenue, Crewe Telephone:—Crewe 55678	Miss A. Unsworth. Flat 1, Hankelow Hall, Hankelow, Audlem, Nr. Crewe Telephone:—Audlem 378 Miss M. Evans, 22, Lea Avenue, Crewe Telephone:—Crewe 4006
No. 6 Altrincham, Sale and Knutsford	ALTRINCHAM M.B. SALE M.B. BOWDON U.D. HALE U.D. KNUTSFORD U.D. BUCKLOW R.D.	5, School Road, Sale Telephone:—Sale 2305	Mr. W. H. Driver, 32, Sefton Road, Sale. Telephone:—Sale 3408	Mr. R. E. Hopkinson, 4, Hargreaves Road, Timperley. Telephone:—Ringway 4775 Miss D. Jones, Flat 1A, 31, The Downs, Altrincham Telephone:—Altrincham 4013	Miss R. Barnett, 7, Balmoral Drive, Timperley Telephone:—Sale 4440
No. 7 Macclesfield and Congleton	MACCLESFIELD M.B. MACCLESFIELD R.D. CONGLETON M.B. CONGLETON R.D. BOLLINGTON U.D.	Oak House, Brunswick Street, Macclesfield Telephone:—Macclesfield 6030	Mr. L. Meadwell, Craigmore, Brereton Heath Lane, Somerford, Congleton Telephone:—Holmes Chapel, 3202	Mr. E. W. Harrison, 6, Overton Crescent, Hazel Grove, Telephone:—Stepping Hill 1806	Mrs. R. Hilderley, The Withins Farm, Lower Withington, Macclesfield Telephone:—Lower Withington 358
No. 8 North-East Cheshire	CHEADLE & GATLEY U.D. HAZEL GROVE & BRAMHALL U.D. MARPLE U.D. WILMSLOW U.D. ALDERLEY EDGE U.D. DISLEY R.D.	District Offices, Shaw Heath, Stockport Telephone:—Stockport 4422	Mr. R. Ashton, 23, Fairfield Avenue, Cheadle Hulme Telephone:—Hulme Hall 3672	Mrs. I. Houghton, 9, Stalmine Avenue, Heald Green Cheadle. Telephone:—Mercury, 3481	
No. 9 Stalybridge Hyde and Dukinfield	STALYBRIDGE M.B. HYDE M.B. DUKINFIELD M.B. LONGDENDALE U.D. BREDBURY & ROMILEY U.D. TINTWISTLE R.D.	1A, Melbourne Street, Stalybridge Telephone:—Stalybridge 2274	Mr. J. Thompson, 28, Pickford Lane, Dukinfield. Telephone:—Ashton-u-Lyne 1128	Mrs. M. Townsend, Laureldene, Mottram Road, Stalybridge Telephone:—Mottram 2134	

DAY NURSERIES

- Altrincham M.B. 1, Gaskell Road (Tel. Altrincham 3621).
Matron—Mrs. W. Helliwell
- Bebington M.B. The Bradmoor, Bromborough (Tel. Brom-
Matron—Mrs. F. G. Davies borough 1381)
- Congleton M.B. Bradshaw House, Lawton Street (Tel. Congleton
Matron— 3282).
- Dukinfield M.B. Dewsnap Lane (Tel. Ashton-u-Lyne 3136)
Matron—Mrs. C. J. Bell
- Ellesmere Port M.B. Stanney Lane, Ellesmere Port (Tel.:
Matron—Mrs. R. F. Chroston E. Port 1500)
- Macclesfield M.B. South Park, Poplar Road (Tel. Macclesfield 3751)
Matron—Mrs. M. Mallinson
1, Glegg Street (Tel. Macclesfield 2813).
Matron—Mrs. E. Roberts
Nicholson Avenue, Hurdsfield (Tel. Maccles-
Matron—Mrs. L. Potts field 4225)
- Sale M.B. Harley Road (Tel. Sale 4627).
Matron—Mrs. C. M. de Patoul
- Bollington U.D. Buntings Field, Wellington Road (Tel. Bolling-
Matron—Mrs. M. Trier ton 3294)
- Bredbury & Romiley U.D. Highfield Park Road, Bredbury (Tel. Woodley
Matron—Mrs. E. Ogden 2817).
- Hazel Grove & Queen's Road, Hazel Grove (Tel. Stepping Hill
Bramhall U.D. *Matron*—Miss P. Höhne 2048)
- Runcorn U.D. Okell Street (Tel. Runcorn 2461).
Matron—Mrs. M. Jones

WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

Warden and Manager—L. T. Burton (Tel. Aston (Nantwich 313)

MOTHER AND BABY HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. Hoylake 1054).

Matron—Miss R. A. Barton

JUNIOR TRAINING CENTRES

Navigation Road, Altrincham

(Tel. Altrincham 4977).

Supervisor—Mrs. D. M. Platt

Methodist Sunday School, Stockport Road, Gee Cross, Hyde (Tel. Hyde 1408)

Supervisor—Mrs. J. Worfolk

33 Great King Street, Macclesfield (Tel. Macclesfield 3407)

Supervisor—Mrs. M. Cheadle

Methodist Sunday School, Hospital Street, Nantwich (Tel. Nantwich 65378)

Supervisor—Mrs. M. Hayes

Calveley Avenue, Mill Park Drive, Eastham

(Tel. Eastham 2270)

Supervisor—Miss I. J. Young

ADULT TRAINING CENTRE

Coronation Road, Ellesmere Port

(Tel. Ellesmere Port 1512)

Superintendent—J. H. Heath

CENTRAL OFFICE

County Hall, Chester (Tel. Chester 24678)

REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1961

Section I.-Area and Population

Area

The acreage of the County at the end of 1961 was 621,825 acres.

Population

The population of the Administrative County, as constituted 1/4/61 and enumerated at the Census of 1961, was 921,212. The estimate of the Registrar-General for mid-1961 was 923,630.

Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/61 was £12,445,795. A penny rate over the whole County for 1961-62 represented the sum of £50,843 (estimated).

Health Service Premises

The undermentioned major works were commenced or completed in the above year, and many minor adaptations and improvements were carried out at various buildings. The normal programme of maintenance work has continued.

Buildings completed during the year:

Altrincham Ambulance Station.
Cheadle Ambulance Station.
Ellesmere Port Clinic Centre, Day Nursery and Adult Training Centre.
Eastham Junior Training Centre.
Heswall Ambulance Station.

Buildings in course of erection during the year:

Eastham Clinic Centre.
Northwich Ambulance Station.
Partington Clinic Centre.
Tattenhall, The Rookery—Conversion of Outbuilding to Ambulance Station.

Section II.-Births and Deaths

The figures are for the Administrative County, 1961, unless otherwise stated.

Live Births:—

		Total.	Male	Female
Legitimate	— —	15454	8028	7426
Illegitimate	— —	580	287	293
		<u>16034</u>	<u>8315</u>	<u>7719</u>

Birth Rate per 1,000 of the estimated resident population, 17·4.

Illegitimate Live Births were 3·6% of the total live births.

		Total.	Male	Female
Stillbirths	— — —	323	174	149

Stillbirths Rate per 1,000 total (live and still) births, 19·7

Total—Live and Still Births, 16,357.

		Total.	Male	Female
Deaths	— — —	11251	5693	5558

Death Rate per 1,000 of population, 12·2.

Infantile Mortality:—

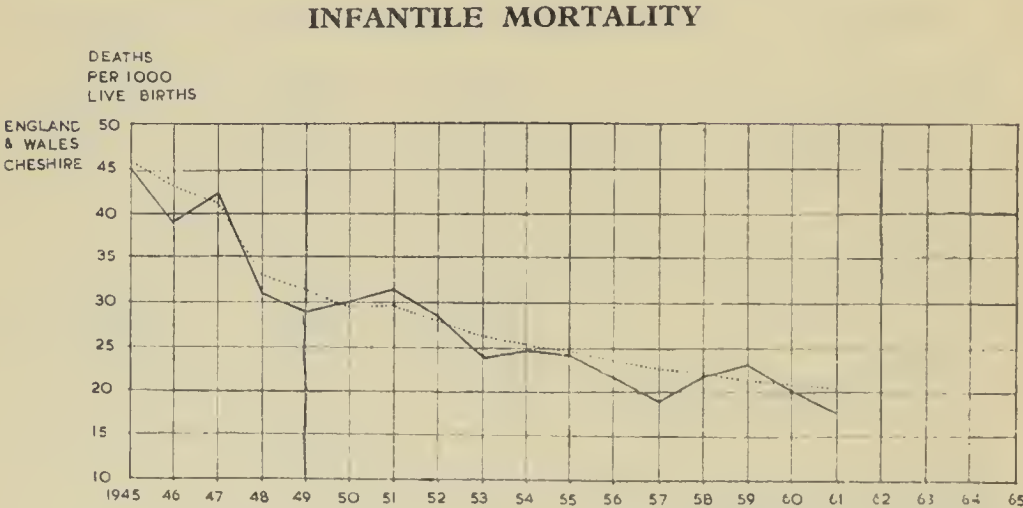
		Under 1 year	Under 4 weeks	Under 1 week
Deaths of Infants in the Administrative County during 1961	.....	282	207	173
Legitimate	.....	266	197	164
Illegitimate	.....	16	10	9
All Infants per 1,000 live births	.....	17·6	12·9	10·8
Legitimate Infants per 1,000 legitimate live births	.....	17·2	12·7	10·6
Illegitimate Infants per 1,000 illegit- imate live births	.....	27·6	17·2	15·5

Of the 282 deaths of infants under one year of age, 29 deaths occurred at home and 253 deaths in hospitals or nursing homes. The

causes of death, using the Registrar General's Classification, were as follows:—

Whooping cough	1
Meningococcal infections	1
Other infective and parasitic diseases	2
Leukaemia, Aleukæmia	1
Vascular lesions of the nervous system	1
Pneumonia	29
Bronchitis	3
Gastritis, Enteritis, Diarrhoea	3
Congenital Malformations	66
Other diseases	164
Accidents	11

The figures for deaths under one year in recent years are shown in the following diagram:—



Perinatal Deaths

Perinatal deaths are the total of stillbirths and deaths of infants under one week, and were made up as follows in 1961:—

Stillbirths	323
Deaths under one week	173
<i>Total</i>	<u>496</u>

The Perinatal Mortality Rate (stillbirths and deaths under one week combined per 1,000 total live and still births) for 1961 was 30.3.

Deaths from Puerperal Causes

	Deaths	Rate per 1,000 total (live and still) births
Pregnancy, Childbirth, Abortion	3	0.18

Comparison of various rates with previous years

		1961	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949
Births	16034	Birth Rate (per 1,000 population)	17.4	17.1	16.0	15.9	15.6	15.0	14.1	14.3	14.6	14.3	14.5	14.8	15.6
Illegitimate Births	580	Illegitimate Births as percentage of total Live Births	3.6	3.4	3.2	3.2	3.2	3.6	3.3	3.7	3.8	3.7	3.7	3.9	4.1
Stillbirths	323	Stillbirth Rate (per 1,000 Live and Still Births)	19.7	19.3	21.6	22.5	22.8	24.1	22.4	26.0	22.1	23.4	23.0	24.9	25.3
Deaths	11251	Death Rate (per 1,000 population)	12.2	11.6	12.0	12.1	11.9	12.3	12.2	11.9	11.3	11.6	13.1	11.6	11.8
Deaths of Infants under one year	282	Infantile Mortality Rate	17.6	20.1	23.4	22.4	18.8	22.5	24.7	24.9	24.1	28.0	32.0	30.0	29.8
Deaths of Infants under four weeks	207	Neo-natal mortality Rate	12.9	14.5	17.3	16.1	12.5	15.8	16.7	17.5	16.0	18.0	21.0	19.2	not available
Deaths of Infants under one week	173	Deaths of Infants under 1 week to 1,000 live births	10.8	12.5	14.8	not available									
Perinatal Deaths (Stillbirths & deaths under one week)	496	Perinatal Death Rate	30.3	31.6	36.1	not available									
Maternal Deaths	3	Maternal Mortality rate	0.18	0.38	0.28	0.14	0.51	0.61	0.66	0.4	0.5	1.1	1.1	0.88	1.63

Principal Causes of Death

Causes of Death 1952-1961 (all ages)

The table below shows the trends in the causation of death at all ages for each of the last ten years

		1961	1960	1959	1958	1957	1956	1955	1954	1953	1952
T.B.—Respiratory		44	37	54	59	72	98	75	96	93	124
—Other		3	7	3	7	11	8	15	17	11	22
Diphtheria		—	—	—	—	—	—	—	—	—	—
Whooping Cough		1	1	1	—	3	3	3	—	3	3
Measles		2	—	2	1	1	1	2	4	5	1
Malig. Stom.	M	175	172	177	168	166	151	151	169	180	167
	F	110	145	144	133	129	131	137	114	138	122
Lung Bronc.	M	350	300	311	337	310	288	274	268	208	179
	F	57	60	52	49	49	52	44	35	52	36
Breast		198	167	167	160	149	166	167	154	156	172
Uterus		84	91	67	80	77	82	78	78	86	85
Others	M	441	442	462	457	465	442	442	425	404	414
	F	419	476	445	433	407	410	410	399	378	378
Leukaemia		42	40	44	42	28	43	39	47	43	32
Diabetes		81	65	57	67	43	56	63	60	55	63
Vasc. Nervous Syst.	M	684	639	711	658	648	669	701	671	588	628
	F	1097	969	995	1071	1017	1,039	913	938	859	855
Coronary	M	1261	1233	1075	1043	964	1,053	918	904	816	789
	F	771	786	641	656	596	548	497	430	415	441
Influenza		171	27	90	45	134	55	75	26	100	34
Pneumonia		542	466	440	398	385	340	334	296	261	291
Bronchitis		539	498	493	559	459	534	487	505	490	457
Peptic Ulcer		86	81	91	74	88	92	116	101	91	101
Nephritis		60	74	77	77	90	105	104	124	117	137
Motor Accidents		168	140	119	124	108	101	105	99	90	91
Other Accidents		186	172	191	200	215	205	183	202	178	159
Suicide	M	69	45	52	58	58	64	41	54	53	59
	F	48	42	37	48	51	41	40	51	26	29

Death Rates

The death rates for the main diseases during 1961 were as follows:

Disease	No. of Deaths	Rate per million population
Heart Disease	3659	3962
Malignant Diseases	1834	1986
Vascular lesions of nervous system	1781	1928
Bronchitis	539	584
Pneumonia	542	587
Ulcer of Stomach and Duodenum	86	93
Influenza	171	185
Nephritis	60	65
Tuberculosis (all forms)	47	51
Pulmonary	44	48
Non-Pulmonary	3	3
Diabetes	88	88

Zymotic Deaths

The deaths from the chief zymotic diseases were as follows :

Disease	No. of Deaths	Rate per million population
Diphtheria	—	—
Whooping Cough	1	1·1
Measles	2	2·2
Gastritis, Diarrhoea and Enteritis	52	56·3

The zymotic Death Rate was 0·06 per 1,000 population.

**DEATHS FROM CANCER OF LUNG AND BRONCHUS,
AND FROM BRONCHITIS**

	<i>Cancer</i>	<i>Bronchitis</i>
Within 10 miles of Manchester		
Altrincham M.B.	27	26
Bowdon U.D.	1	6
Bredbury and Romiley U.D.	11	19
Cheadle and Gatley U.D.	17	24
Dukinfield M.B.	8	11
Hale U.D.	7	9
Hazel Grove and Bramhall U.D.	7	8
Hyde M.B.	17	27
Longdendale U.D.	2	4
Marple U.D.	4	8
Sale M.B.	25	29
Stalybridge M.B.	15	23
Population, 301,920	141	194
Death rate per 1,000 population	0·47	0·64
Within 10 miles of Liverpool		
Bebington M.B.	18	26
Hoylake U.D.	14	16
Wirral U.D.	17	10
Population, 105,650	49	52
Death rate per 1,000 population	0·46	0·49
Industrial Areas more than 10 miles from Liverpool or Manchester		
Bollington U.D.	—	4
Congleton M.B.	8	7
Crewe M.B.	25	48
Ellesmere Port M.B.	20	24
Macclesfield M.B.	17	23
Middlewich U.D.	6	3
Northwich U.D.	7	12
Runcorn U.D.	19	17
Winsford U.D.	1	6
Population, 223,790	103	144
Death rate per 1,000 population	0·46	0·64

Rest of County			Cancer	Bronchitis
Alderley Edge U.D.	00000000	00000000	—	3
Alsager U.D.	00000000	00000000	—	6
Knutsford U.D.	00000000	00000000	7	12
Lymm U.D.	00000000	00000000	7	2
Nantwich U.D.	00000000	00000000	4	12
Neston U.D.	00000000	00000000	7	3
Sandbach U.D.	00000000	00000000	2	6
Wilmslow U.D.	00000000	00000000	10	5
Bucklow R.D.	00000000	00000000	4	7
Chester R.D.	00000000	00000000	15	14
Congleton R.D.	00000000	00000000	3	9
Disley R.D.	00000000	00000000	1	2
Macclesfield R.D.	00000000	00000000	11	10
Nantwich R.D.	00000000	00000000	9	16
Northwich R.D.	00000000	00000000	17	20
Runcorn R.D.	00000000	00000000	12	18
Tarvin R.D.	00000000	00000000	5	4
Tintwistle R.D.	00000000	00000000	—	—
Population, 292,270			114	149
Death rate per 1,000 population			0·39	0·51

Section III.-Vaccination and Immunisation

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria; the organisation and management of the scheme has been devolved upon the Divisional Health Committees. Immunisation is also provided against whooping cough and tetanus. Immunisation is, in practice, meant for children, with particular attention to those in infancy, with reinforcing doses on school entry, but vaccination may on occasion be sought by persons of any age.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics. The table at the end of this section sets out the details.

Smallpox Vaccination

During the year 1961, the number of persons vaccinated was as follows:—

	<i>Vaccinated</i>	<i>Re-Vaccinated</i>
Under 1 year	6691	69
Age 1 year	1394	8
Age 2—4 years	507	50
Age 5—14 years	507	256
Age 15 years and over	618	1388
	<hr/> 9643	<hr/> 1771

Diphtheria Immunisation

During the same period the number of children notified as having completed a full course of primary immunisation against diphtheria was:—

<i>Year of Birth</i>	
1961	3848
1960	6600
1959	1195
1958	676
1957	593
1952-56	2313
1947-51	1159

Total 16384

Total number of children who were given a
secondary or reinforcing injection 16,401

It is unfortunate that not all immunisations carried out are notified to the Local Health Authority and the above figures are therefore not complete.

The number of children at 31st December, 1961, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

		<i>Last complete course of injections (whether primary or booster)</i>	
<i>Born in Year</i>		1951—61	1956 or earlier
1961	.....	5234	—
1957—60	.....	39913	—
1952—56	.....	35943	25081
1947—51	.....	21398	45955
<hr/>		<hr/>	
Totals	1947—61	102488	71036
<hr/>		<hr/>	

Whooping Cough Immunisation

During the year 1961 the number of children who completed a full course of immunisation against whooping cough was as follows:—

<i>Year of Birth</i>	
1961	3963
1960	6504
1959	1070
1958	583
1957	450
1952—56	1211
1947—51	386
<hr/>	
Total	14167
<hr/>	

Mid-year Child Population

The estimated mid-year child population for the year 1961 was:—

Under 1 year	15600
1—4 years	56500
5—14 years	138500
<hr/>	
Total under 15 years	210600
<hr/>	

Poliomyelitis Vaccination

This scheme was further extended in March, 1956, to include vaccination or immunisation against any other disease authorised by the Minister of Health. Approval was given by the Minister to the vaccination of children against poliomyelitis.

When vaccination of children against poliomyelitis started in 1956 only children in the 1947-54 age group were registered for vaccination, but in May, 1957, the registration of children born in 1955 and 1956 was permitted. Further extensions of the scheme have been made from time to time and at the end of 1959, all persons born since 1914 were approved for vaccination.

Statistics relating to the scheme for 1961 were:—

	Born 1943- 1961	Others	Total
(a) No. of persons awaiting vaccination at 31/12/61	241	58	299
(b) No. of persons who had received 1 injection up to 31/12/61 (but not 2nd or 3rd)	4870	5904	10774
(c) No. of persons vaccinated with 2 injections during 1961	21933	56028	77961
(d) No. of persons vaccinated with 3 injections during 1961	16585	31793	48378
(e) No. of persons vaccinated with 4 injections during 1961	34444	1779	36223
(f) No. of persons who have received 3 injections since inception of scheme	179829	88845	268674

VACCINATION AND IMMUNISATION, 1961

The following table shows the number of children in each Division who completed a course of immunisation or vaccination during 1961 at clinics arranged by Divisional Medical Officers or by private doctors at other places.

Division	Diphtheria (only)		Diphtheria and Whooping Cough (only)		Diphtheria and Tetanus (only)		Whooping Cough Diphtheria and Tetanus (combined)		Whooping Cough (only)		Smallpox	
	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor
Altrincham	597	60	—	—	25	11	778	876	4	—	421	675
Bebington	462	353	236	138	29	—	427	526	1	6	176	469
Cheadle and Wilmslow	1,377	132	—	4	—	—	424	895	—	6	—	1,200
Crewe	150	87	—	115	—	—	—	899	—	—	—	423
Deeside	855	212	4	345	—	—	101	704	—	—	166	742
Hyde	564	4	3	20	655	3	387	324	—	—	—	383
Macclesfield	119	91	58	77	—	—	364	383	—	—	—	364
Mid-Cheshire	—	293	—	218	—	8	—	1,257	—	3	503	110
Nantwich	115	91	—	200	—	38	—	499	—	21	7	441
N.E. Cheshire	257	119	12	53	23	60	247	1,184	1	3	—	974
Runcorn	847	103	—	6	702	—	270	1,374	—	—	25	742
Sale and Lymm	630	48	—	130	23	25	342	869	2	—	262	718
S.E. Cheshire	1,158	258	86	69	658	350	586	1,011	14	13	291	648
S.W. Cheshire	2,656	200	34	139	1	20	802	1,090	1	5	341	964
Stalybridge and Dukinfield	254	55	1	—	8	3	274	185	—	—	265	104
TOTAL	10,041	2,106	434	1,514	2,124	518	5,002	12,076	23	57	2,457	8,957

Section IV.—Ambulance Service

The County Council is charged with a duty under Section 27 of the National Health Service Act, 1946, to provide a comprehensive Ambulance Service throughout the County free of charge to persons carried. The duty includes the provision of an emergency service for road accidents, and the transport of persons for treatment who are unfit to travel by public transport.

During 1960 reorganisation of the Ambulance Service started and radio control was introduced. By the end of 1961 two radio controls, manned night and day, had been established at Chester and Cheadle from where it is possible to exercise control over all the ambulances in the fleet, 52 of which are now fitted with mobile radios. Line communications are based at these controls and throughout the reorganisation a basic principle has been adopted that anyone requiring an ambulance urgently should dial 999 and is then connected to one of the two controls. Experience has shown that a vehicle will arrive within ten minutes except in the more remote parts of the County.

Difficulty arose in one area during the year when an industrial undertaking requiring an ambulance urgently did not use the emergency system. In order to resolve the difficulty, special notices were printed giving instruction on the method to obtain an emergency ambulance and were issued to all factories, schools, public buildings, wayside garages etc. throughout the County. Considerable improvement has been noticed and a better emergency service has resulted.

An interesting development during the year has been the stationing of ambulances upon trunk roads during Bank Holidays and busy weekends when tourist traffic is at its height. This simple arrangement has resulted in better driving standards and some claim may be made that there has been a reduction in accidents.

New stations were opened at Altrincham, Sandbach, Heswall and Tattenhall and staff and operations at Crewe and Nantwich were centralised upon Crewe where a reduction in the total number of vehicles has been possible.

The annual inter-station competition was held at Crewe in May and the Chairman of the County Council presented his silver cup to the winning team from Macclesfield. The Chairman of the County Ambulance Sub-Committee presented a magnificent shield to the Service to be awarded to the best all-round station of the year. After the Chairman's annual inspection the shield was presented to the Crewe Ambulance Station.

The demand upon the Ambulance Service continues to increase and greater use is being made of large sitting-case vehicles. A significant increase in the number of stretcher cases carried reflects the greater turnover of hospital beds.

The need for training ambulance staff to advanced standards has been recognised and arrangements are in hand to establish a training school next year.

In April the department welcomed Mr. G. E. Turner, who was appointed Deputy County Ambulance Officer with Special responsibilities towards the Civil Defence Ambulance and First-Aid Section. The Section has flourished and many exercises including a full column exercise in conjunction with the Manchester Regional Hospital Board have been successfully organised.

Arrangements for mutual aid and the provision of services in border areas by other authorities continued as in previous years but the use of these facilities has been greatly reduced as a result of reorganisation.

The whole-time staff during the year was:—

Supervisory Staff	26
Control Staff	9
Mechanics	6
Driver/Attendants	176 (incl. 10 part-time)
Others	5

The following new vehicles were taken into Service:—

<i>Reg. No.</i>	<i>Make</i>	<i>Year</i>	<i>Delivered to</i>	<i>Date</i>
496 TTU	Bedford	1961	Altrincham	14.12.61
498 TTU	Bedford	1961	Altrincham	20.12.61
499 TTU	Bedford	1961	Altrincham	20.12.61
500 TTU	Bedford	1961	Altrincham	20.12.61
544 TMB	Morris	1961	Altrincham	1.12.61
545 TMB	Morris	1961	Altrincham	6.12.61
895 TMB	Bedford	1961	Crewe	15.12.61
497 TTU	Bedford	1961	Bebington	28.12.61
467 TTU	Bedford	1961	Cheadle	14.12.61
468 TTU	Bedford	1961	Macclesfield	14.12.61
548 TMB	Morris	1961	Macclesfield	14.12.61
896 TMB	Bedford	1961	Hoylake	21.12.61
897 TMB	Bedford	1961	S.W. Cheshire	20.12.61
546 TMB	Morris	1961	Mid-Cheshire	11.12.61
541 TMB	Morris	1961	Mid-Cheshire	17.11.61
547 TMB	Morris	1961	Runcorn	11.12.61
543 TMB	Morris	1961	Hyde	17.11.61
542 TMB	Morris	1961	S.E. Cheshire	5.12.61

The following schedule shows the work done by the service for the financial year 1961-62:—

ITEM (1)	Directly Provided Service (2)			Total	Supplementary Service (including Hospital Car Service). (3)			Transport by Rail (4)
	Amb.	S.C.A.	S.C.C.		Amb.	S.C.A.	S.C.C.		Total
1. No. of persons carried (excluding relatives, escorts and friends)								
(a) Section 27 patients								
(i) Accident or Emergency	9,726	2,453	—	12,179	—	—	—	—
(ii) Others	98,389	158,299	—	256,688	19	—	5,800	5,819
(iii) Total of (i) and (ii)	1,08,425	160,752	—	268,867	19	—	5,800	5,819
(b) Other persons, e.g. persons taken to day nurseries, welfare institutions, occupational centres, L.H.A. clinics, special schools, etc.	3,310	5,639	—	8,949	—	—	728	728
(c) Grand total i.e. (a) (iii) and (b)	111,425	166,391	—	277,816	19	—	6,528	6,547
2. No. of journeys by vehicles								
(a) Patient carrying journeys	29,877	41,036	—	70,913	18	—	3,528	3,546
(b) Abortive and service journeys	425	434	—	859	—	—	—	—
(c) Journeys for transport of analgesia apparatus, midwives, home nurses, etc.	57	71	—	128	—	—	—	—
(d) Total of (a) (b) and (c)	30,359	41,541	—	71,900	18	—	3,528	3,546
3. Total mileage (incl. that in respect of 1 (b))	803,665	978,009	—	1,781,674	232	—	76,087	76,319
								9,720

Population of service area	879,790	No. of ambulance stations	17
Area of service area	596,667	No. of Ambulances	43
		No. of Dual Purpose Vehicles	50

Section V.-Prevention of Illness, Care and After-care

General

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify, and in this connexion tuberculosis has been so specified.

The arrangements under this section of the Act are among those which for organisation and inangement, within the approved estimates, have been devolved to Divisional Health Committees.

TUBERCULOSIS

Consultant Chest Physicians, the main part of whose work at chest clinics passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care; Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the clinics. The loan of large items such as beds and garden shelters, and the supply of smaller items such as sputum flasks, form part of the general scheme for the provision of nursing equipment, of which details are given later.

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council. No additional trainees were admitted in 1961 for industrial rehabilitation. There are at present 16 colonists living in the hostels, of whom 3 are married, and 3 married colonists living with their families in cottages on the estate. During 1961, 13 colonists and trainees were inspected and treated by County Dental Surgeons.

In 1961 after cases of active pulmonary tuberculosis had come to light among residents of County Old Persons Homes, arrangements were made for all residents and staff to have chest X-ray examinations. It was also agreed that a satisfactory chest X-ray report should be a condition of entry to such homes for residents and staff, and that all members of the staff should have annual X-ray examinations.

The following tables will enable a comparison to be made between 1961 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

Tuberculosis Statistics

	1961	1960	1959
New cases notified (primary)			
Pulmonary	232	210	230
New cases notified (primary)			
Non-pulmonary	35	34	26
Total	267	244	256

No. of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st	5212	5245	5496
No. of Deaths from all forms of Tuberculosis	47	44	57
Death-rate from all forms of Tuberculosis per 1,000 of the population	0.05	0.05	0.06

Table relating to Tuberculosis in children under 16 :

Year	Number of Children notified as suffering from Pulmonary Tuberculosis	Number of Children notified as suffering from Non-Pulmonary Tuberculosis	Percentage of Total Notifications	
			Pulmonary	Non-Pulmonary
1952	56	62	12.5	52.1
1953	55	45	12.7	55.6
1954	46	54	12.4	62.1
1955	45	38	10.4	51.3
1956	40	30	10.2	44.1
1957	18	26	4.8	42.6
1958	17	15	5.5	34.9
1959	13	8	5.6	30.8
1960	11	12	5.2	35.3
1961	33	13	14.2	37.1

Table showing primary notifications and deaths from Tuberculosis during past 20 years:—

Year	Primary notifications	Deaths	Death rate per 1,000 population
1942	713	302	·40
1943	685	339	·46
1944	734	332	·45
1945	669	302	·41
1946	510	310	·40
1947	655	296	·38
1948	601	279	·35
1949	565	266	·33
1950	582	195	·24
1951	546	181	·22
1952	568	146	·18
1953	514	104	·12
1954	458	113	·13
1955	505	90	·11
1956	460	106	·12
1957	435	83	·10
1958	351	66	·08
1959	256	57	·06
1960	244	44	·05
1961	267	47	·05

The 1961 deaths are made up as follows :—

	Male	Female	Total
Pulmonary ———	29	15	44
Non-Pulmonary ———	2	1	3
	<u>31</u>	<u>16</u>	<u>47</u>

Death Rates, 1961—

All forms .051 per 1000 of population

Pulmonary .048 per 1000 of population

Non-Pulmonary .003 per 1000 of population

Summary of Notifications during the period from the 1st January, 1961, to the 31st December, 1961

PART I.

FORMAL NOTIFICATIONS

Number of Primary Notifications of new cases of tuberculosis

Age Periods	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	Total (all ages)
Respiratory, Males	1	1	1	5	1	4	7	18	25	34	31	12	5	145
„ Females	1	1	3	1	7	7	9	15	18	11	8	5	1	87
Non-respiratory,														
Males	—	—	—	3	2	2	5	5	1	—	—	—	—	18
„ Females	—	—	2	3	1	—	3	4	1	—	1	1	1	17

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

Source of Information	Number of Cases	
Death Returns from Local Registrars—	Respiratory	2
	Non-Respiratory	5
Death Returns from Registrar-General (Transferable deaths)	Respiratory	8
	Non-Respiratory	1
Posthumous Notifications	Respiratory	4
	Non-Respiratory	—

Contacts

During the year 1961, approximately 2,884 contacts of tuberculous patients were examined by Chest Physicians, with the co-operation of the health visitors, who visited their homes whenever necessary. Particulars were sent as usual to the Physicians of all tuberculosis deaths (whether of notified or unnotified cases) to assist in arrangements for contact examination.

Mass Miniature Radiography

During 1961 Mass Miniature Radiography Units from the Liverpool and Manchester Regional Hospital Boards visited twelve areas in Cheshire, and details of the numbers examined and the abnormalities detected are given below.

<i>Area</i>	<i>Type of Examinee</i>	<i>Total Number Examined</i>	<i>No. of cases of active T.B. detected</i>
Liverpool Unit—			
County Hall and Backford Hall	Administrative Staff	519	1
Ellesmere Port	Industry	530	—
Neston	Industry	65	—
Bromborough, Bebington and Eastham	Industry	1,035	—
Hooton	Industry	383	—
The unit was stationed most of the year in Birkenhead, and of the Cheshire residents who visited this unit nine were diagnosed as cases of active tuberculosis requiring immediate treatment.			
Manchester Unit—			
Alsager	Industry, General Public and Training College	2,952	3
Congleton	Industry and General Public	5,710	7
Cranage and Holmes Chapel	ditto	1,646	1
Hyde	ditto	11,770	24
Middlewich	ditto	2,300	1
Sandbach	ditto	4,900	5
Winsford	ditto	1,973	1
		<hr/> 33,783	<hr/> 43

Classification of cases diagnosed:—

(a) Active tuberculosis requiring treatment	.....	.....	.....	52*
(b) Tuberculosis requiring occasional supervision	.....	.....	.....	143
(c) Carcinoma	.....	.....	.....	15
(d) Other abnormalities	.....	.....	.....	238
			<hr/>	
Total abnormalities detected	.....	.....	.....	<hr/>448

*Includes the 9 cases diagnosed outside the Administrative County.

B.C.G. Vaccination

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination of contacts of tuberculous persons were approved by the Minister in 1949. They provided for B.C.G. vaccination of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis, as a result of the vaccination. In 1954, the Minister gave approval to the scheme being extended to provide for the B.C.G. vaccination of children between 13 and 14 years of age. In 1959, the scheme was further extended to allow for the arrangements to cover school children of 14 years and upwards and also students attending Universities, teacher training colleges and technical colleges, or other establishments of further education.

The chest physicians employed by the Regional Hospital Boards, towards whose salaries the County Council pays a specified proportion, all Divisional Medical Officers and two Assistant County Medical Officers are approved for the purpose of giving B.C.G. vaccination.

During 1961, the chest physicians vaccinated 937 cases, and the Divisional Medical Officers vaccinated 267 cases, under the contact scheme. In addition to these, 2,066 new-born infants were vaccinated.

Divisional Medical Officers and Assistant County Medical Officers vaccinated 8,574 school children and 67 students during the year and details of the work carried out under the schemes are:—

School Children Scheme

Number of consent forms issued .....	.....	.....	.....	13,137
Number of consents received .....	.....	.....	.....	11,254

	<i>Number tested</i>	<i>+ve</i>	<i>—ve</i>
Mantoux tests	4,256	596	3,487
Multiple puncture tests	6,572	1,324	5,096
Totals	10,828	1,920	8,583

Follow-up skin test (12 months)	5,708	5,392	187
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	<i>Fluid Vaccine</i>	<i>Freeze dried Vaccine</i>	<i>Total</i>
Number vaccinated with B.C.G.	335	8,239	8,574
Number re-vaccinated with B.C.G.	—	164	164

<i>Contact Scheme</i>			<i>County Staff</i>	<i>Chest Physicians</i>	<i>Total</i>
Number skin tested	.....	.....	468	1,674	2,142
Number found positive	.....	.....	78	686	764
Number found negative	.....	.....	382	877	1,259
Number vaccinated	.....	.....	267	937	1,204

Since the start of the Contact Scheme in 1950, and the School Children Scheme in 1954, the following numbers have been vaccinated:

Contacts

By Chest Physicians	.....	.....	.....	.....	6,639
By Divisional Medical Officers	.....	.....	.....	.....	1,528

School Children

By Divisional Medical Officers and Assistant County Medical Officers	48,122
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Students

By Divisional Medical Officers and Assistant County Medical Officers	1,491
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Babies

At Hospitals and Clinics	7,585
				Total	65,365

MENTAL ILLNESS

The care and supervision of patients at home suffering from mental illness was carried out by Mental Welfare Officers. Arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Details of the Mental Health Service are given in Section VIII later in this Report.

OTHER ILLNESSES

Liaison has been continued with the Almoners and other appropriate officials of general hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay. The services of a domestic help and a district nurse are also available on request from the general practitioner to help a mother to nurse a child at home and avoid the admission of the child to hospital.

At two large hospitals in the County, health visitors attend the Geriatric clinics to provide information for the specialists and to receive information which is passed on to the health visitors for the districts in which the patients live. Similar arrangements exist at other hospitals in the County at clinics conducted by Paediatricians and Chest Physicians.

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help.

HEALTH EDUCATION

An important aspect of "prevention of illness" is health education, and details of the ways in which this is carried out are given below. Routine health education is given by members of the staff, particularly the health visitors, to individuals and small groups, and supplies of leaflets and books are available at the Infant Welfare Centres, Ante-natal and Young Children's clinics. At the clinic centres a variety of posters are also displayed. The subjects covered are concerned with home safety, the care of babies and young children, and vaccination and immunisation. Comment is made (page 74) on Health Education for expectant mothers and the parents of young children.

The Divisional Medical Officers are continually being called on to give lectures to local organisations on such subjects as home accidents, coronary thrombosis, mental health, smallpox, and the connection between tobacco smoking and lung cancer. Courses on First Aid were also arranged. The health visitors are much in demand for lectures to mothercraft classes and young wives' associations, etc.

Each division has a filmstrip projector, and there are at present about 200 filmstrips on about seventy different subjects available in the County for use in any division. The subjects covered include prevention of illness, home safety, nutrition, mental health, care of babies, vaccination and immunisation, personal and home hygiene. Another form of visual aid used at lectures is the flannelgraph, and there are a variety of subjects covered by this form of display.

At County headquarters a stock is kept of approximately 100 different leaflets on a large variety of subjects for issue free to the public through the Divisional Medical Officers and the health visitors. The Divisional Medical Officers make great use of the birthday card, which is a message from the Medical Officer of Health to parents of children reaching their first birthday and gives general advice.

Increasing efforts are being made to educate the public about cancer, and the County Health Committee makes a large contribution to the cost of the work carried out by the Manchester Committee on Cancer, which operates in that area of the County covered by the Manchester Regional Hospital Board. The work is carried out mainly by means of lectures and the provision of displays for public exhibitions. The Manchester Committee has also offered to undertake on behalf of local authorities the instruction of school children in the connection between lung cancer and tobacco smoking. This facility has been brought to the notice of the Head Teachers of secondary modern and grammar schools.

In 1961, the formation of a similar organisation for the Liverpool area was approved when the local authorities concerned agreed on the constitution of the Committee for Education of the Public on Merseyside. The County Health Committee approved a grant to the Committee which, it is hoped, will soon start to operate.

In 1959, a meeting took place to discuss the formation of local Home Safety Committees, at which representatives of the County Council and the District Councils attended. It was recommended that it should be left to voluntary societies to form the local Home Safety Committees, on which representatives of the Divisional Health Committees could serve, if necessary. The County Health Committee has already made grants to four such societies, at Bebington, Nantwich, Hazel Grove and Sale.

Eight editions of a Home Safety handbook are distributed to the public showing the ways in which accidents in the home occur and the ways in which they can be avoided. The handbooks also give details of the services available in each of the eight areas.

Health education is also furthered by displaying the work of the department on stalls whenever the opportunity occurs at shows and other public exhibitions.

NURSING EQUIPMENT

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests.

Divisional Medical Officers make available larger items of equipment such as mattresses, beds, bed cradles, crutches, rubber sheets, etc., and keep reserve stocks of the items held by the Home Nurses. Bedding is also kept for issue in special cases, *e.g.*, when a patient's small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

The following table gives the main items held by Divisional Medical Officers or in stock at Winsford store:—

Bedpans, Rubber	Hoists
Bedpans, large	Hospital type beds
Bedpans, medium	Pulley attachments for
Bedpans, small	hospital type beds
Toilet seats, inflatable	Hospital type cot beds
Rings, foam rubber	Mattresses, foam rubber
Rings, air	Air/Water beds
Urinals, male	Walking aids
Urinals, female	Electric blanket
Beds, ordinary	Wheelchair, motorised
Bed Cradles	Special Beds with various
Mattresses	attachments
Bed Trays	Mobile invalid seat
Blankets	Travelling folding wheelchair
Sheets	Leg extension to standard
Draw Sheets	type wheelchair
Pillows	7 in 1 walking and
Pillow cases	exercising aid
Commodes	Spastic chairs
Douche pans	Wheelchairs, push type
Sputum cups	Wheelchairs, capable of
Paper handkerchiefs	being propelled by patient
Breast pumps	Self-lifting poles
Stair carriage	Enuresis alarms
Crutches	Spinal carriage
Rubber sheets	T.B. Shelters
Feeding cups	Folding triangular frame
Steam kettles	Ejector seat
Hot water bottles	Fracture boards
Back rests	Toilet seat aid
Sputum flasks	Bath aids
Walking sticks	Bath steps
Disposable underpads	Bath, special mat

RECUPERATIVE CONVALESCENCE

During the year 1961, 101 patients were sent for recuperative convalescence for periods of between two and eight weeks. Contributions were paid by the patients towards the cost of this convalescence in accordance with the County scale. Seven of the cases were mothers and children sent to the Brentwood Recuperative Centre, Marple. This centre caters mainly for women of limited resources with young children who need a period of recuperation following hospital treatment, mental and physical distress arising from difficult domestic circumstances, bad housing, etc., or prior and subsequent to confinement. The distribution of cases throughout the County was as follows:—

Division	No. of Cases	Division	No. of Cases
Altrincham	4	Nantwich	3
Bebington	8	North East Cheshire	6
Cheadle and Wilmslow	2	Runcorn	4
Crewe	7	Sale and Lymm	5
Deeside	8	South East Cheshire	6
Hyde	13	South West Cheshire	4
Macclesfield	8	Stalybridge & Dukinfield	17
Mid-Cheshire	6		

Also under Section 28, 32 mentally subnormal children were found accommodation for short periods during the year.

SPECIAL LAUNDRY

This service is available for incontinent aged and handicapped persons who are receiving the attention of a home help or a domiciliary nurse. Special bags are provided in which the bundle of dirty clothing is placed. It is collected, and the normal practice is to deliver it to the nearest hospital which has agreed to carry out the laundering of the articles. Patients pay according to their means, with a maximum charge of 5s. 0d. per bundle, although these charges can be varied in exceptional circumstances. The following work under this heading was carried out during the year:—

Number of		Charges to Patients		
Patients	Bags	Full	Half	Nil
16	250	7	2	7

SITTERS-IN

Facilities exist to supplement, in specially approved cases, the Domestic Help service by means of night sitters-in. In 1961 sitters-in were provided for eleven cases.

CHIROPODY SERVICE

Details of the County Chiropody Service, which came into operation on 1/10/59, are as follows:—

- (a) The service is available to persons over the age of 65 years, physically handicapped persons and expectant mothers recommended for treatment by their family doctor or the district nurse.
- (b) All chiropodists holding a qualification laid down in the National Health Service (Medical Auxiliaries) Regulations, 1954, are entitled to take part, giving treatment in their own premises or in the patient's own home.
- (c) Persons entitled to the service may attend any registrable chiropodist of their own choice who is willing to take part in the scheme.
- (d) A patient unable to travel to the Chiropodist's surgery may have the treatment carried out at home and for this the Chiropodist receives an extra fee.
- (e) The fees for treatment on the premises of a Voluntary Society are paid direct to the Society which makes its own arrangements with the Chiropodist.
- (f) The Authority pays the whole of the fees in respect of persons in receipt of National Assistance benefit or whose sole income is the statutory retirement pension.

The following scale of aid was in operation in 1961:—

Free treatment—	Those in receipt of National Assistance benefit or whose income does not exceed £4 per week in the case of single persons, or £6 per week in the case of married persons
Half cost paid by Cheshire County Council	When income between £4 and £5 10s. 0d. per week in the case of single persons. When income between £6 and £8 per week in the case of married persons.

The Divisional Health Committees have power to vary these payments in exceptional or necessitous cases.

In agreement with representatives of the Chiropodists, only six treatments are authorised under the County scheme in the first six months after approval is given to an application for treatment. Following that, six treatments can be approved within the ensuing twelve months. The Divisional Medical Officers are able to authorise more frequent treatments in exceptional cases.

The table below gives details of the work carried out during 1961.

CHIROPODY SERVICE 1961

Division	Place of Treatment						Total		Fees paid by C.C.C.	
	Chiroprodist's Surgery		Home of Patient		Club					
	Cases	Treat- ments	Cases	Treat- ments	Cases	Treat- ments	Cases	Treat- ments		Full	Part
Altrincham	487	1851	166	586	91	290	744	2727	651	93
Bebington	71	400	212	933	—	—	283	1333	254	29
Cheadle and Wilmslow	572	3109	180	1428	125	795	877	5332	822	55
Crewe	435	2539	119	565	—	—	554	3104	504	50
Deeside	133	754	84	507	2	12	219	1273	193	26
Hyde	284	1829	309	1992	20	111	613	3932	581	32
Macclesfield	233	1283	186	990	—	—	419	2273	395	24
Mid-Cheshire	468	2561	95	450	—	—	563	3011	495	68
Nantwich	64	236	28	144	26	129	118	509	108	10
N.E. Cheshire	341	1882	156	944	—	—	497	2826	462	35
Runcorn	136	642	136	638	—	—	272	1280	261	6
Sale and Lymm	265	1560	110	575	—	—	375	2135	325	50
S.E. Cheshire	300	1571	110	613	86	524	496	2708	471	25
S.W. Cheshire	334	1729	238	997	—	—	572	2726	547	25
Stalybridge and Dukinfield	79	414	125	748	—	—	204	1162	193	11
TOTALS	4,202	22,360	2,254	12,110	350	1861	6,806	36,331	6,262	539
Category of patients:—										
(a) Over 65 years	4,086	21,757	2114	11394	336	1804	6,536	34,955		
(b) Physically handicapped	115	602	140	716	14	57	269	1375		
(c) Expectant Mothers	1	1	—	—	—	—	1	1		

INFECTIOUS DISEASES

In order that Divisional Health Committees may have a continuous picture of the incidence of infectious disease in their areas, Divisional Offices receive full particulars of notified cases, and the County Council repays to District Councils, in accordance with the National Health Service Act, the notification fees paid to doctors.

The following table gives the number of cases notified under the various headings during the year 1961.

	Scarlet Fever	Whooping Cough	Acute Poliomyelitis Paralytic	Acute Poliomyelitis Non-Paralytic	Measles (excluding Rubella)	Diphtheria	Acute Pneumonia	Dysentery	Smallpox	Acute Encephalitis Infective
Altrincham M.B.	20	8	—	1	810	—	23	1	—	—
Bebington M.B.	23	12	2	—	681	—	25	22	—	—
Congleton M.B.	1	2	—	—	265	—	16	—	—	—
Crewe M.B.	63	26	—	—	908	—	2	6	—	—
Dukinfield M.B.	5	4	—	—	208	—	—	1	—	—
Ellesmere Port M.B.	9	23	5	2	451	—	3	37	—	—
Hyde M.B.	19	16	2	—	548	—	4	15	—	—
Macclesfield M.B.	14	3	—	—	793	—	22	2	—	—
Sale M.B.	39	3	—	—	545	—	6	17	—	—
Stalybridge M.B.	8	14	—	—	189	—	6	—	—	—
Alderley Edge U.D.	—	1	—	—	10	—	1	—	—	—
Alsager U.D.	—	4	—	—	277	—	4	—	—	—
Bollington U.D.	—	2	—	—	96	—	—	—	—	—
Bowdon U.D.	1	—	—	—	57	—	2	—	—	—
Bred. and Rom. U.D.	10	—	—	—	120	—	1	—	—	—
Cheadle and Gatley U.D.	41	10	1	—	479	—	4	—	—	—
Hale U.D.	3	3	—	—	292	—	2	—	—	—
Hazel Grove and Bramhall U.D.	4	—	—	—	551	—	2	—	—	—
Hoylake U.D.	5	4	1	—	230	—	5	2	—	—
Knutsford U.D.	—	—	—	—	176	—	—	—	—	—
Longdendale U.D.	—	—	—	—	57	—	2	—	—	—
Lymm U.D.	—	—	—	—	3	—	1	—	—	—
Marple U.D.	2	3	1	—	70	—	1	8	—	—
Middlewich U.D.	—	—	—	—	14	—	—	—	—	—
Nantwich U.D.	2	15	—	—	244	—	1	2	—	—
Neston U.D.	7	13	—	—	162	—	7	1	—	—
Northwich U.D.	26	9	—	—	272	—	2	—	—	—
Runcorn U.D.	22	1	—	—	346	—	—	—	—	—
Sandbach U.D.	1	2	—	—	345	—	5	—	—	—
Wilmslow U.D.	6	4	—	—	308	—	3	—	—	—
Winsford U.D.	—	—	1	—	436	—	—	—	—	—
Wirral U.D.	3	17	—	—	319	—	15	—	—	—
Bucklow R.D.	5	—	—	—	132	—	1	—	—	—
Chester R.D.	4	9	—	—	193	—	5	2	—	—
Congleton R.D.	4	1	1	—	205	—	6	10	—	—
Disley R.D.	—	—	—	—	27	—	1	—	—	—
Macclesfield R.D.	10	2	—	—	376	—	8	6	—	—
Nantwich R.D.	19	65	—	—	694	—	17	2	—	—
Northwich R.D.	37	10	1	—	719	—	6	—	—	—
Runcorn R.D.	11	6	—	—	749	—	26	8	—	—
Tarvin R.D.	17	2	—	—	282	—	11	1	—	—
Tintwistle R.D.	—	—	—	—	6	—	1	—	—	—
TOTAL,	439	294	15	3	13645	—	247	143	—	—

	Acute Encephalitis Post Infectious	Enteric or Typhoid Fever	Paratyphoid Fevers	Erysipelas	Meningococcal Infection	Food Poisoning	Tuberculosis Respiratory	Tuberculosis Meninges and C.N.S.	Tuberculosis Other	Puerperal Pyrexia	Ophthalmia Neonatorum
Altrincham M.B.	—	—	2	—	—	2	11	—	—	2	—
Bebington M.B.	—	—	—	3	—	18	12	—	3	—	—
Congleton M.B.	—	—	—	1	—	6	6	—	1	—	—
Crewe M.B.	—	—	—	2	—	—	15	1	2	1	—
Dukinfield M.B.	—	—	—	—	—	5	10	—	1	—	—
Ellesmere Port M.B.	—	—	—	—	—	—	7	—	1	1	—
Hyde M.B.	—	—	—	—	1	—	30	—	2	3	—
Macclesfield M.B.	—	—	—	2	—	—	5	—	—	2	—
Sale M.B.	—	—	1	2	—	4	6	—	2	7	—
Stalybridge M.B.	—	—	—	1	—	1	12	—	3	—	—
Alderley Edge U.D.	—	—	—	—	1	—	—	—	—	—	—
Alsager U.D.	—	—	—	—	—	1	1	—	—	1	—
Bollington U.D.	—	—	—	1	—	4	—	—	—	—	—
Bowdon U.D.	—	—	—	—	—	—	—	—	—	—	—
Bred. and Rom. U.D.	—	—	1	—	—	—	7	—	—	1	—
Cheadle and Gatley U.D.	—	—	2	—	1	2	16	—	2	2	—
Hale U.D.	—	—	—	—	—	—	3	—	—	—	—
Hazel Grove and Bramhall U.D.	—	—	—	—	—	—	6	—	2	1	—
Hoylake U.D.	—	—	4	—	1	—	14	—	2	1	—
Knutsford U.D.	—	—	—	—	—	—	—	—	—	—	—
Longdendale U.D.	—	—	—	—	—	—	2	—	—	—	—
Lymm U.D.	—	—	—	—	—	—	3	—	1	—	—
Marple U.D.	—	—	3	1	—	—	5	—	—	1	—
Middlewich U.D.	—	—	—	—	—	—	—	—	—	—	—
Nantwich U.D.	—	—	—	—	1	—	3	—	—	4	—
Neston U.D.	—	—	—	—	—	—	2	—	—	2	—
Northwich U.D.	—	—	—	—	—	—	1	—	—	—	—
Runcorn U.D.	—	—	—	1	2	2	9	—	—	—	—
Sandbach U.D.	—	—	—	—	—	—	1	—	2	—	—
Wilmslow U.D.	—	—	1	—	—	—	4	—	—	—	—
Winsford U.D.	—	—	—	1	1	—	1	1	—	—	—
Wirral U.D.	—	—	—	—	—	1	6	—	2	—	—
Bucklow R.D.	—	—	—	—	—	—	3	—	—	1	—
Chester R.D.	—	—	—	1	—	2	8	—	7	—	—
Congleton R.D.	—	—	—	5	1	2	2	—	2	—	—
Disley R.D.	—	—	—	—	—	—	—	—	—	—	—
Macclesfield R.D.	1	—	1	—	—	—	2	—	1	—	—
Nantwich R.D.	—	—	—	—	—	—	—	—	1	—	—
Northwich R.D.	—	—	—	—	—	—	1	—	1	—	—
Runcorn R.D.	—	—	1	1	1	—	1	—	1	1	—
Tarvin R.D.	—	—	—	—	—	—	4	—	—	—	—
Tintwistle R.D.	—	—	—	—	—	—	—	—	—	—	—
TOTAL	1	—	16	22	10	49	219	2	39	31	—

The following Table shows the variation in notifications of the principal Infectious Diseases during the past ten years:—

Notifications	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952
Measles	13645	3681	11809	4504	11048	3218	10450	6361	7537	9594
Scarlet Fever	439	693	1049	958	561	733	688	1033	1232	1223
Whooping Cough	294	1072	729	367	1046	1877	1210	1368	3080	2420
Poliomyelitis	18	9	14	31	35	131	57	29	53	41
Diphtheria	0	1	0	1	2	0	0	1	6	1
Smallpox	0	0	0	5	0	0	0	0	0	0
Tuberculosis:—										
Pulmonary,										
all ages	219	210	230	308	374	392	431	393	433	449
Non-pulmonary,										
all ages	41	34	26	43	61	68	74	87	81	119
Pulmonary,										
Children under 15	22	11	13	17	18	40	45	46	55	56
Non-pulmonary,										
Children under 15	11	12	8	15	26	30	38	54	45	62

Section VI.-Mothers and Young Children; Health Visiting, etc.

General

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now also used to carry out the Council's schemes for prevention of illness, after-care, and handicapped persons.

Health Visiting

Number of Health Visitors employed—31.12.1961	—	—	—	117
Equivalent whole-time H.V. Services provided	—	—	—	82

NUMBER OF VISITS PAID BY HEALTH VISITORS DURING THE YEAR.

Number of children under 5 years of age visited	—	—	—	76,947
Expectant Mothers—				
First Visits	—	—	—	4,898
Total Visits	—	—	—	7,901
Children under one year of age—				
First Visits	—	—	—	17,043
Total Visits	—	—	—	102,158
Children aged 1 and under 2 years—				
Total Visits	—	—	—	46,278
Children aged 2 but under 5 years—				
Total Visits	—	—	—	76,370
Tuberculosis Households—				
Total Visits	—	—	—	5,194
Other cases—				
Total visits	—	—	—	27,287
Total number of households or families visited	—	—	—	71,428
Number of clinic sessions attended	—	—	—	15,740

Notification of Births

The distribution of the births to Cheshire mothers notified under the Public Health Act, 1936, was as follows :—

Domiciliary	Nursing Homes	Hospitals
5083	231	10761

Premature Infants

Particular attention is devoted to babies weighing $5\frac{1}{2}$ lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 1006 premature live babies were born in the year under review, whose mothers normally live in the Authority's area, 191 at home and 815 in hospitals or nursing homes. Of these 881 survived 28 days. The details are:—

	Number of Live Births	Died within 24 hours	Died 1—28 days	Survived 28 days
Born in Hospital	811	70	35	706
Born at home and				
(a) Nursed entirely at home	140	9	4	127
(b) Transferred to Hospital on or before 28th day	51	3	4	44
Born in Nursing Home and				
(a) Nursed entirely there	4	—	—	4
(b) Transferred to Hospital on or before 28th day	—	—	—	—
	1006	82	43	881

There were 182 premature stillbirths, 160 being delivered in hospital and 22 at home

Puerperal Pyrexia

31 cases of Puerperal Pyrexia were notified during the year, 8 being domiciliary and 23 institutional confinements.

Maternal Mortality

The maternal mortality for 1961, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 0.18.

Ante-Natal and Post-Natal Clinics

The number of Ante-Natal clinics conducted by Doctors was 19. The Regional Hospital Boards pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in many districts midwives' clinics have been established.

The following tables give particulars of County clinics held during 1961:—

Doctors' Clinics

Clinic	No. of Sessions	ANTE-NATAL			POST-NATAL
		Attendances	New cases	No. of patients attended during the year	Attendances
Bredbury	23	183	91	102	—
Cheadle	48	309	152	164	—
Congleton	44	255	47	52	—
Ellesmere Port	101	1935	317	419	182
Frodsham	52	1207	151	192	42
Hazel Grove	24	203	92	107	—
Heswall	51	1197	138	205	159
Hoylelake	51	1480	203	444	136
Hyde†	49	831	208	248	—
Little Sutton	49	652	87	133	61
Macclesfield Bridge Street	24	695	233	265	—
Hurdsfield House	12	233	78	97	—
Sanders Square	12	203	64	68	—
Neston	48	1817	108	138	55
New Ferry	96	530	73	111	29
Runcorn	51	636	158	196	—
Sale	51	1002	226	314	7
Stalybridge	26	153	37	44	26
Timperley†	24	288	58	76	7
Totals	836	13809	2521	3375	704

† Non-consultant

Midwives Clinics

CLINIC	No. of Sessions	Attendances	New cases	No. of Cases who attended during year	
Bollington	51	292	56	66	
Bredbury	51	966	164	203	
Broomwood, Altrincham	20	52	13	15	
Cheadle	52	841	216	241	
Crewe					
Ludford Street	98	749	148	160	
Stalbridge Road	50	326	77	77	
Dukinfield	48	791	115	137	
Ellesmere Port*	7	131	37	85	
Frodsham	24	201	39	48	
Hollingworth	47	94	5	15	
Hoylelake	49	286	96	104	
Leftwich	20	80	19	32	
Little Sutton	51	561	86	125	
Lymm	44	273	50	69	
Macclesfield, Heyes Hall	21	204	65	75	
Hurdsfield House	21	47	26	26	
Sanders Square	24	290	84	89	
Marple	49	553	109	145	
Nantwich	50	314	59	61	
Neston	31	134	21	29	
Parkfield	42	188	17	41	
Poynton	47	1202	174	232	
Sandbach	51	377	63	75	
Stalybridge (Millbrook)	45	280	46	58	
Stockton Heath	50	589	165	184	
Weaverham	45	248	11	77	
Winsford	46	217	62	74	
* Started in 1961	Totals	1134	10286	2023	2543

Mental Health of Mothers and Young Children.

Expectant mothers regularly attend preparation classes; these are run largely on group discussion lines. It is found that the ventilating of personal problems before the birth of the baby is a great help to the mother-child relationship later. The talks are followed by relaxation exercises conducted by physiotherapists.

Classes were held at 27 centres, details of which are given below.

Preparation Classes, 1961				
CLINIC	No. of Sessions	Attendances	New Cases	
Alsager	57	380	85	
Cheadle	49	949	146	
Crewe	51	1527	213	
Dukinfield	48	849	135	
Handforth	49	808	148	
Hazel Grove	51	627	110	
Heswall	49	1177	133	
Hoylake	49	1363	165	
Hyde	48	921	134	
Little Sutton	51	748	139	
Macclesfield	49	610	118	
Hurdsfield House				
Sanders Square	44	340	77	
Marple	48	535	94	
Nantwich	48	611	81	
Neston	48	502	67	
New Ferry	51	1012	134	
Northwich	51	665	106	
Poynton	45	513	86	
Romiley	46	634	96	
Runcorn	50	484	93	
Sale	49	421	75	
Sandbach	50	545	77	
Stalybridge	40	120	23	
Stockton Heath	45	328	48	
Timperley	47	266	77	
Weaverham	48	286	41	
Winsford	49	286	39	
Totals	1310	17507	2740	

Child Welfare Centres

The following Tables give particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County:—

CHILD WELFARE CENTRES, 1961.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswood —	Fortnightly	1st and 3rd Monday	23	464	240	20
Alderley Edge	Weekly	Friday	50	1075	724	22
Alsager —	Fortnightly	Tuesday a.m. and p.m.	48	2110	388	44
Altrincham — (The Mount)	Twice weekly	Monday & Wednesday	99	4171	602	42
Altrincham (Broomwood)	Weekly	Monday	47	1483	755	32
Altrincham — (Timperley)	Three times weekly	Tuesday a.m. & p.m. & Thursday p.m.	154	5901	1983	38
Audlem —	Fortnightly	1st and 3rd Tuesday	24	673	276	28
Barnton —	Fortnightly	2nd and 4th Wednesday	23	653	108	28
Barrow —	Fortnightly	1st and 3rd Wednesday	24	367	109	15
Bebington — (New Ferry)	Weekly	Wednesday	51	1471	323	29
Bebington — (Bromboro')	Weekly	Thursday	51	2008	428	39
Bebington — (Eastham)	Weekly	Monday	48	1491	275	31
Bebington — (Thornton Hough)	Fortnightly	1st and 3rd Friday	22	346	82	16
Bebington — (Higher Bebington)	Weekly	Tuesday	51	1650	593	32
Bebington — (Mayer Hall)	Weekly	Friday	50	1431	372	29
Bollington —	Fortnightly	2nd and 4th Thursday	23	1462	336	64
Rowdon —	Fortnightly	2nd and 4th Thursday	24	629	195	26
Bramhall — (Bramall Lane)	Fortnightly	1st and 3rd Monday	22	1217	286	55
Bramhall — (Bridge Lane)	Fortnightly	2nd and 4th Friday	23	717	322	31
Bredbury —	Weekly	Tuesday	50	2199	612	44
Broadbottom	Fortnightly	1st and 3rd Wednesday	24	763	185	32
Bunbury	Fortnightly	1st and 3rd Friday	24	373	122	16
Carrington	Monthly	1st Friday	12	138	64	12
Cheadle —	Weekly	Tuesday	51	3241	860	64

CHILD WELFARE CENTRES, 1961—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Cheadle Hulme	Weekly	Tuesdays	51	3552	528	70
Cheadle Road	Fortnightly	2nd and 4th Monday	24	1622	481	68
Christleton	Fortnightly	1st and 3rd Thursday	24	946	203	39
Comberbach	Fortnightly	1st and 3rd Wednesday	24	788	242	33
Congleton	Weekly	Monday	48	3374	1313	70
Crewe (Ludford St.)	Twice weekly	Thursday a.m. & p.m.	102	3979	499	39
Crewe (Minshull New Road)	Fortnightly	1st and 3rd Monday	27	622	188	23
Crewe (Stalbr'ge Rd.)	Twice weekly	Monday and Wednesday	99	3916	680	40
Davenham	Monthly	1st Monday	12	342	48	29
*Delamere	Fortnightly	1st and 3rd Wednesday	4	27	14	7
Disley	Fortnightly	1st and 3rd Tuesday	24	719	150	30
Dukinfield	Twice weekly	Wednesday & Thursday	100	4028	1026	40
Ellesmere Port (York Road)	Twice weekly	Tues. & Fri.	101	3639	552	36
Ellesmere Port (Ince)	Monthly	4th Thursday	12	82	37	7
Ellesmere Port (Little Sutton)	Weekly	Monday	48	1964	274	41
Ellesmere Port (Overpool)	Fortnightly	1st and 3rd Thursday	23	605	77	26
Farndon	Fortnightly	1st and 3rd Tuesday	24	270	71	11
Frodsham	Fortnightly	Alternate Tuesdays	25	889	289	36
Gatley	Fortnightly	2nd and 4th Thursday	23	1466	326	64
Goostrey	Fortnightly	1st and 3rd Tuesday	24	839	296	35
Grappenhall	Weekly	Tuesday	51	2181	822	43
Greasby	Weekly	Wednesday	51	1724	287	34
Hale	Weekly	Wednesday	52	2236	295	43
Hale Barns	Fortnightly	1st and 3rd Thursday	24	1153	420	48
Handforth	Fortnightly	2nd & 4th Monday	24	1245	395	52
Hartford	Fortnightly	2nd & 4th Tuesday	23	571	99	25
Haslington	Fortnightly	2nd and 4th Tuesday	24	1022	281	43
Hazel Grove	Weekly	Tuesday	50	2544	475	51
Heald Green	Weekly	Thursday	42	2347	810	56
Heatley	Fortnightly	1st & 3rd Wednesday	14	292	110	21
Helsby	Fortnightly	Alternate Tuesdays	26	1234	407	47
Heswall	Weekly	Monday	48	2357	931	49

*Ceased 15/2/61

CHILD WELFARE CENTRES, 1961—Contd.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
High Lane	Fortnightly	2nd and 4th Tuesday	23	1442	310	63
Hollingsworth	Fortnightly	1st and 3rd Thursday	24	1329	274	55
Holmes Chapel	Fortnightly	2nd and 4th Tuesday	23	776	338	34
Hoylake	Weekly	Thursday	51	1789	480	35
Huntington	Fortnightly	2nd and 4th Wednesday	23	457	199	20
Hyde (Bayley Hall)	Twice weekly	Mon. & Fri.	100	4684	1310	47
Hyde (Parsonage St.)	Twice weekly	Wed. & Thurs.	97	5052	729	52
Irby	Fortnightly	1st & 3rd Wednesday	24	987	269	41
Kelsall	Fortnightly	1st and 3rd Tuesday	24	738	220	31
Kingsley	Fortnightly	2nd & 4th Wednesday	23	307	102	13
Knutsford	Weekly	Wednesday	50	2248	694	45
Lacey Green	Fortnightly	1st and 3rd Monday	23	642	261	28
Leftwich	Fortnightly	2nd and 4th Tuesday	23	830	230	36
Lostock Gralam	Fortnightly	2nd and 4th Wednesday	23	754	207	33
Lower Peover	Monthly	2nd Monday	12	148	43	12
Lymm	Weekly	Tuesday	51	2833	688	55
Macclesfield (Bridge St.)	Weekly	Monday	46	2255	506	49
Macclesfield (Heyes Hall)	Weekly	Wednesday	51	1907	414	37
Macclesfield (Hurdsfield House)	Weekly	Thursday	51	1952	500	38
Macclesfield (Sanders Sq.)	Weekly	Friday	51	1932	493	38
Malpas	Fortnightly	1st and 3rd Monday	26	458	185	18
Marple	Weekly	Wednesday	51	3089	208	61
Marple Bridge	Fortnightly	2nd and 4th Thursday	24	864	258	36
Mellor	Fortnightly	1st and 3rd Thursday	24	456	199	19
Middlewich	Weekly	Monday	48	1421	462	29
Mobberley	Fortnightly	Alternate Tuesdays	25	399	295	16
Moulton	Monthly	3rd Wed.	12	188	56	16
Mow Cop	Fortnightly	1st and 3rd Wednesday	24	269	196	11
Nantwich	Weekly	Thursday	51	2542	467	50
Neston	Weekly	Thursday	50	3693	477	74
Newton (West Kirby)	Fortnightly	2nd & 4th Wednesday	16	788	165	49
Northwich (Darland House)	Weekly	Tuesday	51	1269	222	25

CHILD WELFARE CENTRES, 1961—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Northwich — (Parkfield)	Weekly	Thursday	51	3068	165	60
Over Peover—	Fortnightly	1st and 3rd Monday	22	317	121	14
Partington —	Weekly	Thursday	51	1910	1239	37
Pensby	Fortnightly	2nd and 4th Tuesday	23	1206	387	52
Plumley —	Fortnightly	1st and 3rd Thursday	24	527	142	22
Poynton —	Weekly	1st and 3rd Thursday	51	3169	913	62
Prestbury (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	369	92	15
Rainow (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	290	69	12
Rode Heath—	Fortnightly	2nd and 4th Monday	24	507	144	21
Romiley —	Weekly	Thursday	50	2528	709	51
Runcorn — (Halton Road)	Twice weekly	Wednesday a.m. & p.m.	102	2839	793	28
Runcorn (Weston Point)	Fortnightly	1st and 3rd Thursday	24	762	288	32
Sale (Brooke's Institute)	Weekly	Friday	49	4023	540	82
Sale (Chapel Road)	Twice weekly	Tuesday & Thursday	101	4802	741	48
Sale (Raglan Road)	Weekly	Tuesday	50	2657	693	53
Sale Moor —	Weekly	Thursday	49	2699	597	55
Sandbach —	Twice Weekly	Tuesday a.m. & p.m.	102	3186	943	31
Sandiway —	Fortnightly	1st and 3rd Tuesday	24	1205	135	50
Saughall —	Fortnightly	1st, 3rd & 5th Monday	25	683	242	27
Scholar Green	Fortnightly	2nd and 4th Wednesday	23	571	187	25
Shavington —	Fortnightly	2nd and 4th Tuesday	23	1037	147	45
Stalybridge — (Mechanics' Institute)	Twice weekly	Tuesday & Wednesday	98	3745	759	38
Stalybridge — (Millbrook)	Weekly	Monday	45	1258	301	28
Stockton Heath	Weekly	Monday	48	998	270	21
Sutton — (at Sanders Square)	Fortnightly	2nd and 4th Wednesday	24	447	110	19
Tarporley —	Fortnightly	2nd and 4th Thursday	24	792	197	33
Tarvin —	Fortnightly	2nd and 4th Wednesday	24	494	169	21
Tattenhall —	Fortnightly	2nd and 4th Monday	24	226	87	9

CHILD WELFARE CENTRES, 1961—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Tintwistle	— Fortnightly	2nd & 4th Thursday	24	664	109	28
Upton	— Weekly	Thursday	51	1420	515	28
Weaverham	— Weekly	Tuesday	51	2680	382	53
West Kirby	— Weekly	Friday	50	2050	464	41
Willaston (Wirral)	— Fortnightly	1st and 3rd Friday	24	497	148	21
Wilmslow	— Weekly	Thursday	51	2085	592	41
Winsford	— Weekly	Friday	50	1411	370	28
Wistaston (Willaston)	Fortnightly	2nd and 4th Wednesday	23	654	119	28
Wrenbury	— Fortnightly	2nd and 4th Wednesday	23	283	118	12

Infant Foods

The financial arrangements involved in the supply of infant foods at Welfare Centres continued in the main to be dealt with by Divisional Medical Officers and the voluntary committees' valued help in this and other aspects of centre work was continued.

Welfare Foods Service

At 31st December, 1961 there were, in all, 187 distribution centres in the administrative county, 116 of these being manned by voluntary personnel, and 71 by full-time or part-time paid staff, including the staffs of the local district councils where, by arrangement, points have been established on district council premises.

On 1st July, 1961, revised arrangements were introduced and from that date cod liver oil, orange juice and A. & D. tablets were supplied at full cost without coupons. National Dried Milk continued to be supplied at a reduced rate on the production of a coupon. Free issues of all the above items required a free coupon in each case obtained from the National Assistance Board.

Supplies are received from S.P.D. Ltd. Depots at Liverpool, Manchester and Newcastle, S.P.D. Ltd. act as agents of the Ministry of Health in the matter of storage and delivery. It is usual for 4 to 5 weeks supply of Welfare Foods to be held at each distribution centre.

A total of 529,190 articles were distributed to individual beneficiaries, N.H.S. Hospitals, and day nurseries during the period 1st January, 1961 to 30th December, 1961, made up as follows:

National Dried Milk	.....	.....	.....	189,527 tins
Cod Liver Oil	.....	.....	.....	34,435 bottles
Vitamin A & D Tablets	.....	.....	.....	38,909 packets
Orange Juice	.....	.....	.....	266,319 bottles

Young Children

Young Children's Clinics were held in 40 centres, primarily for ensuring the proper supervision of handicapped children. At the same time Assistant County Medical Officers specially interested in early behaviour problems, can hear of the mothers' difficulties. The very fact of discussing them often indicates to the mother what course she should take. If it should be necessary, the general practitioner's agreement is obtained to refer a case to the Child Guidance Service. Psychiatrists in the Liverpool Region have been most helpful in meeting health visitors and discussing problems with them. Details of the attendances at these clinics in 1961 are given below.

YOUNG CHILDREN'S CLINICS, 1961.

Centre	No. of Sessions	No. Present	Aver Att.
ALTRINCHAM			
The Mount	11	100	9
Broomwood	12	179	15
BEBINGTON	13	136	10
BREDBURY	10	52	5
BROMBOROUGH	12	193	16
CHEADLE	11	141	13
CONGLETON	11	98	9
CREWE			
Ludford Street	10	66	7
Stalbridge Road	10	129	13
DUKINFIELD	12	138	12
EASTHAM	12	188	16
ELLESMERE PORT	10	123	12
GATLEY	11	146	13
HALE	10	83	8
HANDFORTH	8	71	9
HAZEL GROVE	13	280	21
HESWALL	12	148	12
HOYLAKE	9	85	9
KNUTSFORD	10	85	9
LITTLE SUTTON	10	109	11
LYMM	21	269	13
MACCLESFIELD			
Bridge Street	11	152	14
Hurdsfield House	23	176	8
Sanders Square	12	87	7
MARPLE	10	82	8
MIDDLEWICH	7	29	4
NANTWICH	11	97	9
NESTON	11	101	9
NEW FERRY	12	125	11
PARKFIELD	9	50	6
POYNTON	11	62	6
ROMILEY	9	63	7
RUNCORN	11	106	10
SALE	12	161	13
SANDBACH	10	66	7
STOCKTON HEATH	11	103	9
TIMPERLEY	12	146	12
WEAVERHAM	11	72	7
WILMSLOW	12	130	11
WINSFORD	12	142	12
TOTALS	455	4769	

Dental Care

s Increasing importance is now attached to the provision of Dental services for expectant and nursing mothers, and for young children. Facilities will be extended as opportunity offers, subject to the availability of necessary staff.

DENTAL REPORT

Mothers and young children are dealt with during School Dental clinic sessions.

All necessary treatment is carried out, if necessary with local or general anaesthetic.

All dentures are set up by a mechanic, and impressions and fittings carried out by the dental surgeon.

Three clinics possess X-Ray apparatus, and for other clinics arrangements are made with the local hospital.

The following details show the work done during the year 1961:—

	Expectant Mothers	Nursing Mothers	Children under 5 years
<i>(a) Numbers provided with Dental Care</i>			
Examined ————	157	326	1108
Needing Treatment ————	150	317	1013
Treated ————	143	304	977
Made Dentally Fit ————	73	181	761
Total Attendances ————	320	811	1373
<i>(b) Forms of Dental Treatment Provided</i>			
Temporary Extractions ————	—	—	1348
Permanent Extractions ————	369	891	—
Temporary Teeth Filled ————	—	—	522
Permanent Teeth Filled ————	97	215	—
Anaesthetics —Local ————	53	91	39
General ————	43	122	600
Partial Upper Dentures fitted ————	10	22	—
Full Upper Dentures fitted ————	8	51	—
Partial Lower Dentures fitted ————	5	5	—
Full Lower Dentures fitted ————	6	44	—
Scalings or Scaling and Gum Treatment ————	31	86	50
Silver Nitrate Treatment ————	—	6	62
Dressings ————	28	46	61
Radiographs ————	2	13	2

Number of Sessions spent on M.C.W. work — — — 280

Care of Unmarried Mothers

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 51 Cheshire women were admitted during the year, staying approximately eight weeks before the birth and six weeks afterwards. Responsibility was accepted at other homes and hostels for 30 such mothers during the year.

Day Nurseries

Details of the 13 Day Nurseries now maintained by the County Council are given on page 39. The following table gives the number of places available and the attendances of children at each nursery in 1961.

Nursery	Approved number of places 31/12/61		Permitted number	Number of children on Register 31/12/61		Average daily attendance 1961	
	0—2	2—5		0—2	2—5	0—2	2—5
Altrincham	15	17	30	13	23	10.5	18.5
Bollington (T)	16	24	30	11	25	6.3	22.5
Bredbury	25	25	30	8	29	5.5	23.5
Bromborough	20	25	30	7	28	5.8	25.3
Congleton	16	24	40	10	38	8.8	31.8
Dukinfield	16	24	35	13	26	10.0	21.3
Ellesmere Port (T)	20	30	50	14	34	9.5	21.0
Hazel Grove	16	24	35	11	25	8.0	21.3
Macclesfield—							
Glegg Street (T)	10	30	40	10	32	11.5	28.0
Hurdsfield (T)	25	25	40	10	29	8.8	27.0
South Park (T)	18	30	40	12	31	13.3	24.3
Runcorn	16	24	30	10	25	7.0	21.8
Sale	20	31	30	3	33	3.0	30.3
Total	233	333	460	132	378	98	316

T—indicates a nursery approved for training purposes.

During the interval between the demolition of the original Ellesmere Port Day Nursery and the opening of the new one in course of erection in 1961, smaller premises were used at Hooton Park, to and from which transport was provided.

Nurseries and Daily Minders

The County Health Department is responsible for the inspection and registration of premises under the Nurseries and Child-Minders Regulation Act, 1948, and the position on 31st December, 1961, was as follows:—

Premises	Number Registered	Number of Children provided for
(a) Factory Nurseries	2	106
(b) Other Nurseries	8	134
	10	240
Daily Minders	25	320

Nursing and Maternity Homes

The County Council is the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1961:—

	Number of Homes	Number of beds provided for:—		
		Maternity	Others	Total
Homes first registered during year	1	—	8	8
Homes whose registrations were withdrawn during the year	3	6	12	18
Homes on the register at end of year	25	13	268	281
Homes exempt from registration at end of year	1	—	200	200

Artificial Sunlight Treatment

During the year 1961, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

Dukinfield	694	Sale	176
Hyde	1011	Salybridge	768

Orthopaedic Scheme

The specialist orthopaedic sessions held at county clinic premises are conducted by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1961 at such clinics (excluding those for sunlight only) by children under 5:—

Dukinfield	287	Northwich	243
Ellesmere Port	244	Runcorn	193
Hyde	234	Salybridge	487
New Ferry	388		

Child Guidance

The authority decided in 1959 to set up two child guidance teams, each comprising two psychologists and three psychiatric social workers under psychiatrists provided by the Regional Hospital Boards. The Sandbach and Handforth Child Guidance Clinics were operating for the whole of 1961 and were conducted by Dr. Hugh Craig, the Senior School Medical Officer, with three psychologists for most of the year and one psychiatric social worker. The Ellesmere Port Child Guidance Clinic opened in October, 1961, and this clinic and that at Clatterbridge Hospital were conducted by Dr. D. M. Zausmer and Dr. K. M. Fraser, Consultant Child Psychiatrists, with one psychologist and one psychiatric social worker.

There is still a serious shortage of trained social workers, and with the loss of one psychologist on study leave, a certain amount of borrowing from other clinics has taken place.

Cerebral Palsy

The cerebral palsy peripatetic team of a physiotherapist and an occupational therapist which was started in April, 1956, continues to operate at clinic centres at Cheadle, Crewe, Macclesfield and Weaverham, and once a month at each clinic Dr. J. D. Allan, the Consultant Paediatrician, attends. The team works in close contact with the appropriate speech therapist and has the services of an Assistant County Medical Officer specially trained in the ascertainment of intelligence in physically handicapped children. Twice each year a special meeting is held of all officers concerned to review all cases attending the clinics. The object is to start the treatment of a cerebral palsied child as early in life as possible, and children usually attend the clinics for treatment once or twice each week.

The table below gives details of the children attending the clinics during 1961:—

CEREBRAL PALSY CLINICS

	New Cases Seen			Attendances all Cases		
	Pre-School	School	Total	Pre-School	School	Total
Cheadle	1	1	2	238	254	492
Crewe	—	1	1	287	475	762
Macclesfield	—	2	2	123	403	526
Weaverham	2	1	3	196	365	561
Total	3	5	8	844	1497	2341

Impairment of Hearing

The teamwork required to ascertain children with any degree of hearing impairment as early in life as possible has continued during the year. Regular clinics were held at 70 centres in the County at which those health visitors (75%) who have been trained in the technique, carried out screening tests of hearing. Of nearly 9,000 children tested

(usually between 9 and 12 months of age) 797 failed to respond normally to sound. On retesting 139 were found to require further investigation.

The Assistant County Medical Officers see all such children, as well as those brought to their notice because of delayed or defective speech development, or any other form of handicap, for more complete assessment, usually at Young Children's Clinics. When testing proves difficult and it is not possible to show that hearing is normal, the children are referred for consultant opinion at one of the Audiology Clinics.

The number of these clinics has been increased and they are now held regularly at eight centres in the County, conducted as previously by Professor Sir Alexander Ewing or Dr. Ian Taylor, from Manchester University. At many of the sessions the help of one of the Consultant Otologists is an added asset. More than half the children seen at the Audiology Clinics in 1961 were under five years old.

At the end of the year, 95 pre-school children were known to have some degree of hearing impairment. 22 of them had a severe loss, necessitating the use of an individual hearing aid, and six were already attending a special school for the deaf. The others are receiving home training with their parents, under the guidance of the staff of the University Department of Audiology and Education of the Deaf, the peripatetic teachers of the Deaf and those health visitors (13%) who have received appropriate training.

During these early years it is essential for children with impaired hearing to hear speech of adequate loudness before they can learn to talk. This is greatly helped by the daily use in the home of a speech training hearing aid, which provides better amplification than a small wearable aid. Speech training aids are used in the clinics by the peripatetic teachers of the deaf, and two are available for loan to parents of young children, under their supervision. It is hoped that it will be possible to make increasing use of this valuable means of training.

AUDIOLOGY CLINICS—1961

CENTRE	New Cases			Attendances		
	Under-five	School	Total	Under-five	School	Total
Cheadle	16	4	20	18	9	27
Chester	16	9	25	23	17	40
Crewe	11	9	20	14	15	29
Ellesmere Port	2	2	4	3	7	10
Hale	16	2	18	30	7	37
Macclesfield	10	15	25	12	21	33
Northwich	0	5	5	0	7	7
Romiley	4	15	19	4	17	21
TOTAL	75	61	136	104	100	204

Section VII.-Midwifery

General

A summary of the numbers involved is given below, further details on pp. 35-36, and general information, relating both to district nurses who practise midwifery and to those who do not, in Section X.

Number of Midwives in Practice

There were 295 midwives who notified their intention to practise in the County Area during 1961:—

Headquarters Staff	4
County Midwives	60
District Nurse Midwives	84
Independent Midwives	6
Practising in Private Nursing Homes	4
Practising in Institutions	137

Inspection of Midwives

Visits paid by Senior Medical Officer	53
Lectures to midwives and pupils	28

Visits paid by Non-Medical Supervisors of Midwives:—

Inspection of County Midwives	181
Inspection of Independent Midwives	5
Statutory supervision of District Nurse Midwives	92
Special visits to Midwives	54
Visits to pupil Midwives	44
Lectures to pupils and Midwives	6

Cases visited:—

Labours	10
Nursings	366
Ante-natal	131

Cases attended by County Midwives and District Nurse Midwives on County Council Staff

	Deliveries (live and still)		Stillbirths included in Cols. a & b	Miscarriages
	Col. a as midwives	Col. b as maternity nurses		
Midwives	2,485	711	21	83
District Nurse Midwives	1,179	523	14	55
Total	3,664	1,234	35	138

Number of patients attended by midwives following early discharge from Hospital 3495

Notifications received (Central Midwives Board Rules)

Medical Aid	1426
Stillbirths	68
Source of Infection	97
Deaths in the Practice	16

Inhalational Analgesia

- | | | | | | | |
|---|------|-------------|--|--|--|------|
| (a) Number of domiciliary midwives practising in area
31/12/61, who were qualified to administer inhal-
ational analgesics..... | | | | | | 166 |
| (b) Number of sets of apparatus in use by above, 31/12/61 | | | | | | |
| Gas and Air | | | | | | 148 |
| Trilene | | | | | | 18 |
| (c) Number of cases in which inhalational analgesics
were administered, 1961— | | | | | | |
| (a) when doctor was not present | (i) | Gas and Air | | | | 3653 |
| | (ii) | Trilene | | | | 260 |
| (b) when doctor was present | (i) | Gas and Air | | | | 1276 |
| | (ii) | Trilene | | | | 132 |

Pethidine

Number of cases in which pethidine was administered by domiciliary midwives during 1961:—

- | | | | | | |
|---------------------------------|----------|----------|----------|----------|------|
| (a) When Doctor was not present | 00000000 | 00000000 | 00000000 | 00000000 | 2398 |
| (b) When Doctor was present | 00000000 | 00000000 | 00000000 | 00000000 | 799 |

General

- | | |
|---|----|
| (a) Number of houses owned by County Council | 8 |
| (b) Number of motor vehicles owned by County Council | 8 |
| (c) Number of County Midwives receiving County allowance for their own cars | 70 |
| (d) Number of telephone rentals being paid | 62 |

Rota System in Domiciliary Midwifery

It has not yet proved possible to introduce a system whereby night calls are taken by midwives who are off-duty during the day.

The districts are such that usually 3 or 4 midwives cover an area and relieve each other; by this means two are always on duty. Alternatives to this method have been discussed with the midwives but they prefer to continue the present system, and it appears to work satisfactorily.

Section VIII. Mental Health

This is the first full year in which the Mental Health Act, 1959 has been in operation since its inception on 1st November, 1960, and a great deal of progress has been made in the County Mental Health Services to implement the objects of the Act, as defined in the preamble—"An Act to repeal the Lunacy and Mental Treatment Acts, 1890 to 1930 and the Mental Deficiency Acts 1913 to 1938, and to make fresh provision with respect to the treatment and care of mentally disordered persons and with respect to their property and affairs; and for purposes connected with the matters aforesaid".

Proposals were submitted to the Minister of Health prior to the operation of the Mental Health Act indicating the arrangements required to carry into effect the provisions of Section 28 of the National Health Service Act, 1946 and Section 6 of the Mental Health Act, 1959. These proposals were broadly as follows:—

(1) to meet the needs of the mentally disordered living in the community by making the services known and available to those who require them,

(2) to provide such of the undermentioned facilities as may be found to be necessary:—

- (i) Junior and Adult Training Centres
- (ii) Home Training
- (iii) Residential accommodation for all classes of mentally disordered patients capable of living in the community
- (iv) Day Centres and Social Clubs, and
- (v) A Home Visiting Service

The Minister of Health has adopted the concept of the Royal Commission that there should be a re-orientation away from hospital care and towards care in the community, leading to a comprehensive and fully integrated mental health service. This can only be achieved according to the measure of co-operation which exists between each local authority, the general medical practitioners and the hospitals in their area. In Cheshire great progress has been made to achieve this.

In 1961 most of the District Mental Welfare Officers were upgraded, and facilities such as part-time clerical assistance, interviewing rooms and up-to-date equipment were provided. To enable the public to become aware of the Mental Health Service a mental health brochure was produced and it has been placed in doctors' surgeries, National Assistance Board Offices, Ministry of National Insurance Offices, Post Offices, etc. This had led to an increased number of callers on the mental health officers seeking help and advice.

It will be seen from Table II that the Mental Welfare Officer's duties have been considerably widened under the provisions of the Mental

Health Act; he must serve his Authority in carrying out their duties relating to the prevention of illness, care and after-care of patients, and his work in this sphere is as a social worker with special functions. In this sense the Mental Welfare Officer requires not only knowledge, but skill, human understanding and sympathy. The Mental Welfare Officer will, in many instances, provide the link between the patient requiring help, the general medical practitioners and the hospitals, and the local health authority.

The Act itself recognises the great importance of informality of admission and discharge from hospital, but where compulsion is necessary, procedures have been modified so that the Mental Welfare Officer will, wherever possible, initiate action only after consultation with the family doctor and relatives concerned.

Junior and Adult Training Centres

In the scheme submitted to the Minister for the provision of a Mental Health Service it was proposed that:—

(1) The County Council will, as soon as possible, replace the present unsatisfactory premises in which Junior Training Centres are held, by specially erected buildings.

(2) Arrangements for transport will be augmented so as to ensure that all suitable cases can regularly attend at a training centre.

(3) The County Council will erect, as soon as possible, a total of six adult training centres in convenient localities, accommodating a total of 300 or more persons and will employ a sufficient staff thereat.

Training of Mental Welfare Officers

In March 1961, the implementation by the Ministry of Health of the recommendations of the Working Party on Social Workers in the local authority Health and Welfare Services was announced in a circular (No. 10/61) issued to Local Health and Welfare Authorities—it is proposed to introduce legislation to establish a National Council for Social Work Training with a separate but associated Council for the training of health visitors “to foster the development of training arrangements and to award certificates to those who successfully complete a course of the appropriate standard”.

To the great satisfaction of all concerned in mental health, it now appears that legislation will lead to a National Council being set up for the training of social workers of the future, and eventually to a qualified service.

Miss Dora Jones, a Mental Welfare Officer, was seconded to Liverpool University to take the mental health certificate course. On the successful completion of this course Miss Jones will be fully qualified to provide after-care to the mentally disordered, both from the social and psychiatric aspect. The County Council has thus laid the foundation for additional mental welfare officers to undergo this special-

ised training in the years to come, ensuring that the council's provision for care of the mentally disordered will be of the highest possible order and in accordance with the provisions of the Mental Health Act.

General

Out-patient facilities for the treatment of subnormality and the complications of subnormality are established at Weaverham County Clinic Centre and Rosemount Clinic, Macclesfield. These clinics are attended by Dr. Pilkington, Medical Director of Cranage Hall Hospital and Dr. Blyth, Senior Medical Officer for Mental Health; this close liaison in the clinical field, between Dr. Pilkington and Dr. Blyth is proving of immense benefit to the patients and to the efficient functioning of the Council's Mental Health Service.

On 4th September 1961 the new purpose-built training centre at Eastham was opened, and the severely subnormal children who were previously housed in a rather unsatisfactory church hall were able to enjoy the benefits of a building embodying the most modern ideas in present day architecture. This change in working environment has done much to aid the training centre staff in their constant efforts to help each child towards his optimum level of intellectual functioning.

The 4th September was also the day that the new adult training centre at Ellesmere Port was opened, and eleven subnormals attended. A carefully planned programme of work had been prepared, and from the onset the trainees entered upon a busy full day, making rugs, step-ladders, baskets, coathangers, link-mats and mops. By the end of 1961 the number attending had risen to twenty. The produce from the training centre is sold and the revenue pays for the raw material which is used. The success of the adult training centre concept is self-evident from the happy atmosphere of the centre and from the obvious improvement in the socialisation of the trainees. Together with the existing traditional activities of the adult centre, it is hoped at a future date to introduce light assembly work under contract with firms in the vicinity of Ellesmere Port.

During 1961 final arrangements were made for the reception of sub-normal males requiring care to be admitted to William Gibson Hostel at Wrenbury early in the following year. Each is employed in one of the following three ways:—

(1) Placement in employment on nearby farms of those with sufficient ability to follow this form of activity

(2) Placement in the Wrenbury Industries of those unable to be placed in outside employment, but who, nevertheless, could undertake regular work

(3) Attendance at Hanley (Stoke-on-Trent County Borough) Training Centre of those subnormals who could not be catered for under para (1) or (2).

The policy of two-monthly meetings at County Hall between the Medical Officer of Health and his staff and the Senior Mental Welfare Officers has proved most useful in co-ordinating the services given in the nine areas of the county, and also in ensuring that the best possible solution is obtained to the various problems which arise in each Senior Officer's area.

1961 has been a year of achievement in the Council's work to implement the new concepts in the field of mental disorder, and a solid foundation has been laid for future development.

TABLE I

The following table shows the number of patients suffering from mental illness admitted to hospital by agency of the Mental Welfare Officers during the period 1st January to 31st December, 1961:—

HOSPITAL	Mental Health Act, 1959										TOTAL
	Sect. 5 (In- formal)		Sect. 25 (Observ- ation)		Sect. 26 (Treat- ment)		Sect. 29 (Emer- gency)				
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
<i>Liverpool Region</i>											
Deva and Moston, Chester	61	138	34	31	40	50	25	27	160	246	
Winwick, Warrington	37	50	11	15	7	5	10	7	65	77	
St. Catherine's, Birkenhead.....	13	32	2	14	—	3	23	22	39	71	
Kingswood, Frodsham	4	—	—	—	—	—	—	—	4	—	
	115	220	47	60	47	58	58	56	267	394	
<i>Manchester Region</i>											
Parkside, Macclesfield	105	122	56	92	20	17	24	27	205	258	
Barony, Nantwich	79	99	15	32	—	3	8	8	102	142	
St. Thomas, Stockport	2	9	2	9	2	4	2	—	8	22	
Ashton General, Ashton-u-Lyne	2	2	1	16	1	5	—	—	4	23	
Lancaster Moor, Lancaster	—	1	—	—	—	—	—	—	—	1	
Prestwich, Manchester	—	1	1	1	—	—	—	—	1	2	
Springfield, Manchester	—	1	1	—	—	—	—	—	1	1	
	188	235	76	150	23	29	34	35	321	449	
Cheadle Royal	5	15	5	13	—	4	2	2	12	34	
Other Hospitals	4	3	—	1	—	1	—	1	4	6	
	9	18	5	14	—	5	2	3	16	40	
Totals	312	473	129	224	70	92	94	94	604	883	
Combined Totals	785		352		162		188		1487		

Total number of patients admitted to Mental Hospitals by agency of Mental Welfare Officers under all procedures during the period 1st January to 31st December, 1961 1487

Total number admitted during the corresponding period in 1960 1434

The following particulars show the number of admissions from each of the nine Mental Welfare Officers' areas as constituted in 1961:—

Wirral	.....	.....	.....	.....	221
West Cheshire	.....	.....	.....	.....	275
Runcorn and Lymm	.....	.....	.....	.....	160
Mid-Cheshire	.....	.....	.....	.....	118
Crewe and Nantwich	.....	.....	.....	.....	161
Altrincham, Sale and Knutsford	.....	.....	.....	.....	163
Macclesfield and Congleton	.....	.....	.....	.....	179
North-East Cheshire	.....	.....	.....	.....	83
Hyde, Stalybridge and Dukinfield	.....	.....	.....	.....	127
					<hr/>
					1,487
					<hr/>

In addition, 450 cases were referred to Mental Welfare Officers in which no action was necessary under the Mental Health Act, but appropriate advice and help were given in other ways.

Mental Welfare Officers now have a wide range of duties, as indicated in the following table showing numbers of visits:—

TABLE II.

	Wirral	West Cheshire	Runcorn and Lymm	Mid- Cheshire	Crewe and Nantwich	Altrincham Sale and Knutsford	Macclesfield and Congleton	North-East Cheshire	Stalybridge Hyde and Dukinfield
	Visits	Visits	Visits	Visits	Visits	Visits	Visits	Visits	Visits
<i>Home Visits</i>									
After-care following discharge from hospital	434	359	166	155	341	324	566	125	497
Accompanying Con- sultant Psychiatrist or General Practitioner	43	32	140	70	63	136	190	125	93
Obtaining Case Histories	119	31	24	207	67	61	78	47	141
Whilst patient is still in Hospital	91	102	56	67	100	78	277	82	69
Miscellaneous cases (requiring pre-care advice, etc.)	228	227	596	204	159	412	950	206	608
Supervision of persons suffering from subnormality or severe sub- normality	534	9 2	598	738	1051	754	929	839	441
<i>Hospital Visits</i>									
To patients admitted from County area	27	61	32	50	40	74	182	46	16
Attendances at Case Conferences	4	2	2	5	4	51	101	42	19
Consultations with Medical and Nursing Staff	94	616*	110	32	53	94	530	237	7
Total	1574	1922	1724	1528	1878	3568	3803	1749	1891

* and other agencies

During the year 136 cases were referred by Mental Welfare Officers to Out-patients' Clinics, and Mental Welfare Officers attended various sessions at such clinics and helped to convey patients to them. The following table shows the number of attendances made and the number of patients conveyed:—

TABLE III.

	<i>No. of Attendances</i>	<i>No. of patients escorted to Out-patients Clinics</i>
Wirral	164	26
West Cheshire	89	13
Runcorn and Lymm	103	51
Mid-Cheshire	87	36
Crewe and Nantwich	90	88
Altrincham, Sale and Knutsford	134	53
Macclesfield and Congleton	313	42
North-East Cheshire	195	31
Stalybridge, Hyde and Dukinfield	274	195
	<hr/> 1,449 <hr/>	<hr/> 535 <hr/>

The County is covered by the following Clinics, and as far as possible patients are referred to the nearest establishment:—

Wirral	St. Catherine's Hospital Annexe, Birkenhead Victoria Central Hospital, Wallasey Clatterbridge Hospital, Bebington Cottage Hospital, Hoylake
West Cheshire	Ellesmere Port Hospital King's Buildings, Chester Moston Hospital, Chester
Runcorn	Victoria Memorial Hospital, Runcorn The Infirmary, Warrington General Hospital, Warrington Winwick Hospital, Winwick Widnes Accident Hospital, Widnes Child Welfare Centre, Frodsham
Mid-Cheshire	Victoria Infirmary, Northwich Cottage Hospital, Tarporley Child Welfare Centre, Weaverham
Crewe and Nantwich	Memorial Hospital, Crewe Barony Hospital, Nantwich.
Altrincham, Sale and Knutsford	Sale and Brooklands War Memorial Hospital Knutsford and District War Memorial Cottage Hospital

Macclesfield and Congleton	Rosemount Clinic, Macclesfield
	West Park Hospital, Macclesfield
North-East Cheshire	Stepping Hill Hospital, Stockport
	St. Thomas's Hospital, Stockport
	Cheadle Royal Hospital, Cheadle
	Offerton House, Stockport
Stalybridge, Hyde and Dukinfield	Ashton General Hospital, Ashton-u-Lyne

Training Centres for the Mentally Subnormal

The table below shows the numbers of Cheshire cases on the registers of training centres at the end of 1961:—

TABLE IV.
County Training Centres

<i>Junior :</i>	<i>Under 16</i>		<i>Over 16</i>		<i>Total</i>
	<i>M.</i>	<i>F.</i>	<i>M.</i>	<i>F.</i>	
Altrincham	26	24	9	7	66
Bebington (Eastham)	29	13	6	2	50
Hyde	26	17	6	11	60
Macclesfield	27	15	2	9	54
Nantwich	19	25	2	6	52

Adult :

Ellesmere Port	1	—	10	9	20
	128	94	35	44	301

Other Authorities' Centres

Chester	9	7	2	6	24
Hanley	—	—	6	—	6
Milehouse, Newcastle under-Lyne	—	—	1	—	1
Victoria Park, Manchester	—	—	2	—	2
Stockport	—	1	—	—	1
Warrington	2	3	—	3	8
	11	11	11	9	42

Voluntary Centres (Spastic)

Crewe	1	—	1	—	2
Stockport	2	5	—	—	7
Sale	8	4	—	1	13
St. Christopher's Trust, Redcourt, Glossop	—	—	1	—	1
	11	9	2	1	23

Hospital Accommodation for the Mentally Subnormal

During the year 1961 the number of vacancies found in hospitals for persons suffering from mental subnormality was:—

Arclid Hospital, Sandbach	1
Ashton House, Birkenhead	3
Brockhall Hospital, Langho, Blackburn	6
Calderstones Hospital, Whalley, Blackburn	1
Cranage Hall Hospital, Holmes Chapel	27
Greaves Hall Hospital, Banks, Southport	3
Lancaster Moor, Lancaster	4
Mary Dendy Hospital, Alderley Edge	5
Moss Side Hospital, Maghull	1
Newchurch Hospital, Culcheth, Warrington	6
Offerton House, Stockport	3
Royal Albert Hospital, Lancaster	1
Stallington Hall, Stoke-on-Trent	1
Swinton Hospital, Manchester	2
Thingwall Hall, Broadgreen, Liverpool	1
	<hr/>
	65

Temporary Care of the Mentally Subnormal

In 1961 the provision was continued of temporary care by admission to hospital for periods of up to two months during family emergencies, especially during the summer months when permanent patients are on holiday, thus providing a temporary respite for parents of children who could not at the time be permanently accommodated.

During 1961, such temporary care was provided in forty-six cases. Another method of securing the same benefit has been the provision of short-stay accommodation at the Orchard Dene Hostel, Rainhill, Pallotti Hall Residential Nursery, Nr. Macclesfield and Redcourt, Glossop where similar temporary accommodation is available. Thirty-two children were so accommodated in 1961.



PART I	Mentally Ill				Psychopath				Subnormal				Severely Subnormal				Totals			
	Under Age 16		16 and over		Under Age 16		16 and over		Under age 16		16 and over		Under Age 16		16 and over		Under Age 16		16 and over	
	M (1)	F (2)	M (3)	F (4)	M (5)	F (6)	M (7)	F (8)	M (9)	F (10)	M (11)	F (12)	M (13)	F (14)	M (15)	F (16)	M (17)	F (18)	M (19)	F (20)
1. Admissions to guardianship of L.H.A. during year ended 31/12/61																				
Sect. 41 (2) (b) from hospitals	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1
2. Number of patients under L.H.A. care at 31/12/61																				
(a) Attending day training centre	—	—	—	—	—	—	—	—	1	—	13	11	150	115	36	44	151	115	49	55
(b) Awaiting entry thereto	—	—	—	—	—	—	—	—	1	—	46	70	—	3	94	131	1	3	140	201
(c) Awaiting residence in L.A. home/hostel	—	—	—	—	—	—	—	—	—	—	14	4	5	4	3	9	5	4	17	13
(d) Receiving home visits and not included under (a) to (c)	—	—	140	225	—	—	6	2	3	1	215	156	47	38	48	4	50	39	409	387
(e) Others (including not yet visited)	—	—	—	—	—	—	—	—	—	—	17	9	8	6	9	4	8	6	26	13
(f) Number of patients involved at (a) to (e)	—	—	140	225	—	—	6	2	5	1	305	250	210	166	190	192	215	167	641	669
3. Number of patients in L.H.A. area on waiting list for admission to hospital at 31/12/61																				
(a) In urgent need of hospital care	—	—	—	—	—	—	—	—	—	—	—	2	38	13	9	7	38	13	11	7
(b) Not in urgent need of hospital care	—	—	—	—	—	—	—	—	—	—	1	2	15	14	14	9	15	14	15	11
4. Number of admissions for temporary residential care during 1961																				
(a) To N.H.S. hospitals	—	—	—	—	—	—	—	—	1	—	2	6	12	6	8	11	13	6	10	17
(b) Elsewhere	—	—	—	—	—	—	—	—	—	—	—	1	17	2	10	2	17	2	10	3
Part II—Number of patients referred to L.H.A. during year ended 31/12/61 by																				
(a) General practitioners	2	3	524	821	1	—	2	1	—	—	2	3	1	—	1	2	4	3	529	827
(b) Hospitals, on discharge from in-patient treatment	—	—	170	208	—	—	6	3	—	—	15	10	—	—	7	6	—	—	198	227
(c) Hospitals, after or during out-patient or day treatment	—	2	121	191	—	—	—	—	—	—	—	1	1	2	—	1	2	4	121	193
(d) Local education authorities	—	2	—	1	—	—	—	—	8	1	13	6	35	20	—	1	43	23	13	8
(e) Police and courts	—	1	76	54	—	2	—	—	—	—	3	—	—	—	—	—	—	3	79	54
(f) Other sources	—	—	181	183	—	—	1	3	1	1	17	6	3	1	10	3	4	2	209	195

Section IX.-Domestic Help

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted an appropriate payment scale.

Staff employed at 31st December, 1961:—

	Supervisors	Domestic Helps
(a) Whole-time	10	22
(b) Part-time	—	754
Whole-time equivalent of (b)		248

Details of the work carried out in each Division during 1961 are given in the following table:—

DOMESTIC HELP SERVICE, 1961

Division	APPROX. NO. OF HOURS HELP PROVIDED				
	Maternity	Tuber- culous	Chronic Sick aged and infirm	Others	Total
Altrincham	1,837	—	8,931	2,925	13,693
Bebington	609	782	33,112	2,489	36,992
Cheadle & Wilmslow	3,636	—	30,747	900	35,283
Crewe	217	737	52,532	2 8	53,764
Deeside	3,242	320	32,408	1,687	37,658
Hyde	211	—	17,906	172	18,289
Macclesfield	1,741	9	29,162	33	30,945
Mid-Cheshire	415	—	26,027	1,613	28,056
Nantwich	609	35	25,954	438	27,036
N.E. Cheshire	4,469	167	28,190	1,636	34,463
Runcorn	850	390	33,506	260	35,006
Sale & Lymm	2,958	—	10,981	1,586	15,526
S.E. Cheshire	808	—	40,360	12,124	53,294
S.W. Cheshire	965	942	44,926	3,385	50,218
Stalybridge & Dukinfield	207	—	34,534	55	34,796
	22,774	3,382	449,274	29,581	505,019

DOMESTIC HELP SERVICE, 1961

Division	HELPS		NUMBER OF CASES					
	Whole-time	Part-time No.	whole-time equivalent	Maternity	Tuber- culous	Chronic Sick aged and infirm	Others	Total
Altrincham	1	25	9	56 (1)	—	75 (38)	56 (9)	187 (48)
Bebington	—	42	18	22 (2)	2 (2)	172 (96)	41 (11)	237 (111)
Cheadle and Wilmslow	9	36	12	94 (—)	—	158 (82)	30 (2)	282 (84)
Crewe	—	102	25	5 (—)	4 (1)	238 (150)	5 (1)	252 (152)
Deeside	—	59	20	70 (4)	1 (1)	140 (74)	36 (5)	247 (84)
Hyde	—	19	9	8 (—)	—	174 (99)	2 (1)	184 (100)
Macclesfield	1	38	20	41 (1)	1 (—)	255 (176)	3 (—)	300 (177)
Mid-Cheshire	—	58	14	11 (1)	—	144 (95)	12 (4)	167 (100)
Nantwich	—	56	13	10 (1)	1 (1)	135 (89)	8 (2)	154 (93)
N.E. Cheshire	—	38	18	120 (3)	2 (1)	252 (125)	41 (4)	415 (133)
Runcorn	—	67	21	28 (—)	2 (2)	164 (80)	23 (3)	217 (85)
Sale and Lymm	1	14	6	78 (4)	—	98 (56)	49 (4)	225 (64)
S.E. Cheshire	—	96	26	15 (7)	—	135 (83)	48 (27)	198 (117)
S.W. Cheshire	—	82	23	30 (1)	2 (1)	185 (103)	20 (2)	237 (107)
Stalybridge & Dukinfield	10	22	13	7 (—)	—	245 (165)	6 (—)	258 (165)
	22	754	247	595 (25)	15 (9)	2570 (1511)	380 (75)	3560 (1620)

The figures in brackets indicate the number of cases in which help started prior to 1961.

Section X. Home Nursing

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

Small nursing appliances such as urinals, hot water bottles, bed-pans, feeding cups, mackintosh sheets, air rings, back rests, inhalers and sputum mugs are kept by nurses for loan to their patients; large items such as special beds, wheel chairs, spinal carriages are available at the Divisional Offices. This service forms part of the County Council's arrangements under Section 28 of the Act.

The following statistics give some idea of the scope of the service and the work done during 1961:—

- (a) Number of Home Nurses at 31/12/61:—
 - (1) Whole-time on General Nursing 72
 - (2) Part-time on General Nursing 130
- (b) Equivalent whole-time home nursing service provided in (a) (2) 79
- (c) Number of houses owned by County Council 26
- (d) Number of motor vehicles owned by County Council 34
- (e) Number of nurses receiving County allowance for their own cars 136
- (f) Number of telephone rentals being paid 167
- (g) Cases and visits were as follows:

<i>Types of Cases</i>	<i>Cases</i>	<i>Visits</i>
Medical	8,520	202,287
Surgical	7,984	168,087
Infectious diseases	3	20
Tuberculosis	232	9,577
Maternal complications	56	313
Others	3,088	9,520
<i>Total</i>	<i>19,883</i>	<i>389,004</i>

Cases included above who:—

- (i) at the time of the first visit during the year were
 - (a) 65 years or over 9,656 215,775
 - (b) Children under 5 years 471 3,844
- (ii) had more than 24 visits during the year 3,641 233,066

(h) The following visits were paid by the Superintendent and Assistant Superintendents:

(i) Inspections	—District Nurses	.....	.....	224
	District Nurse Midwives	.....	.....	178
(ii) Special visits	—District Nurses	.....	.....	24
	District Nurse Midwives	.....	.....	68
(iii) Meetings and lectures attended		.....	.....	21
(iv) Cases	Medical	.....	.....	1,063
	Surgical	.....	.....	182
	Injections	.....	.....	759
	Casual	.....	.....	18

During 1961 four courses were held in the County for district nurses and district nurse midwives at which 40 nurses attended.

On 11th October, 1961, an exhibition was held in King George VI Hall, County Hall, Chester, to demonstrate equipment and methods used by the County nursing services.

Section XI.-Handicapped Persons

General

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf and dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed.

Blind Persons

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have been extended, so far as they are applicable, to partially sighted persons.

Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Ophthalmologists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

Statistics

Number of Registered Blind Persons in the County at 31st December

				1961
Under 5 years	..	..	..	5
5—16 years	..	..	..	28
16—21 years	..	..	..	14
21—40 years	..	..	..	82
40—50 years	..	..	..	103
50—65 years	..	..	..	253
65—70 years	..	..	..	160
70 years and over	..	..	..	872
Unknown age	..	..	..	—
Total				1517

Registered Blind Persons in County, aged over 16 years, employed, or otherwise, at 31st December, 1961—

	in Workshops & Workrooms	19
Employed	as Home workers	16
	variously	83
Not employed :		
	Under 65 years of age	329
	65 years of age and over	1025
Undergoing Training		
At School		7
		5

Incidence of Blindness

During the year 1961 there were 412 forms B.D.8 received for the County. These were classified as follows:—

Registered as Blind.....	236
Registered as Partially Sighted	133
Not registered	43

Follow up:

(i) Number of cases registered during 1961 in respect of which para. 7 (c) of Forms B.D.8 recommended:—	Cause of Disability							
	Cataract		Glaucoma		Retrolental Fibroplasia		Others	
	B	P.S.	B	P.S.	B	P.S.	B	P.S.
(a) No treatment	47	15	9	2	—	—	63	31
(b) Treatment (medical, surgical or optical)	40	37	24	18	—	1	55	27
(ii) Number of cases at (i) (b) above which on follow-up action have received treatment	13	16	15	12	—	1	30	20

B—Blind.

P.S.—Partially Sighted.

Ophthalmia Neonatorum

No case of Ophthalmia Neonatorum was notified during 1961.

Workshop Employees

Annual grants were continued on the usual principles to recognised Workshops for Cheshire employees. A “minimum wage” principle has been adopted for certain workers, their income being made up to a nationally agreed fixed amount. On this principle there were 5 male and 2 female employees at Chester, 3 male employees at Macclesfield, 1 male employee at Oldham, 1 male employee at Stoke-on-Trent, 4 males and 1 female at Henshaw’s, 1 male employee at Warrington, 1 male employee at Stockport and 2 male employees at Liverpool at the end of 1961.

Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation in accordance with the National Scheme was given by the Council to all County approved Workers, who numbered 14 at the end of 1961.

Rehabilitation

One female was maintained during 1961 at the National Institutes Rehabilitation Centre, Oldbury Grange, Bridgnorth.

National Library for the Blind

Grant and augmentation were made in 1961 to the National Library for the Blind on behalf of 2 Cheshire Home Workers who are Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

Other Services

The usual annual grants were continued in 1961 to the National Institute for the Blind and the North Regional Association for their respective national and regional services. An additional grant was paid to the National Institute in respect of its services in placing blind persons in open industry.

Grants are made when necessary towards training blind persons to work with guide dogs.

Wireless Certificates

178 Certificates entitling the recipients to a free wireless licence were issued in 1961 to applicants on the register.

Social Clubs

These clubs meet weekly for about three to four hours and their activities include simple handicrafts, games, and a number of afternoon outings in the summer months. There are clubs at Stalybridge, Hyde, Cheadle and Marple.

Deaf Persons

The County is fully covered by voluntary societies for the welfare of the deaf, and financial grants are made by the County Council to these societies, which act as authorised agents for the provision of advice and help, when desired, for the establishment of social centres, and for outings and other recreational activities. A grant is also paid to the North Regional Association for the Deaf in respect of its statistical, co-ordinating, and educational work. The numbers of Cheshire deaf persons on the registers of the Societies at 31st December, 1961 were as follows:

	<i>under 16 yrs.</i>	<i>16 to 64 yrs.</i>	<i>65 yrs. and over</i>	<i>Total</i>
Chester	25	93	12	130
Liverpool	—	35	13	48
Manchester	—	137	26	163
St. Vincent's (Liverpool)	—	7	—	7
Warrington	3	21	5	29
<i>Totals</i>	28	293	56	377

Other Handicapped Persons

General

The registers of handicapped persons other than the blind, partially sighted and deaf are kept by Divisional Medical Officers. They are limited to persons who wish to receive benefits under the approved scheme. General advice is given on overcoming their handicaps, and on how to obtain such help as is available, either under this scheme, the hospital, local authority, or other aspects of the National Health Service, and from the many voluntary societies concerned with handicapped persons. The names and addresses and particulars of all handicapped school leavers are sent to the Divisional Medical Officers for follow-up and such action as may be necessary.

One example of help under this scheme is adaptation of premises inside or outside, to help handicapped persons to overcome their difficulties. Assistance in handicrafts is given when possible, with the co-operation of voluntary bodies. The most prominent example of the Council's help to handicapped persons is, of course, Wrenbury Hall Colony (see Section V).

Statistics

The numbers of persons on the above registers were as follows at 31/12/61:—

M of L class.	Definition	Children under 16		No. on Register Aged 16 — 64		Aged 65 & over		Total
		M.	F.	M.	F.	M.	F.	
A/E	Amputation	2	—	29	11	9	11	62
F	Arthritis and Rheumatism	1	2	37	92	14	117	263
G	Congenital malformations and deformities	45	43	54	79	1	3	225
H/L	Diseases of the digestive and genito-urinary systems; of the heart or circulatory system; of the respiratory system (other than tuber- culosis) and of the skin	32	30	77	130	21	85	375
Q/T	Injuries of the head, face, neck, thorax, abdomen, pel- vis or trunk. Injuries or diseases (other than tuber- culosis) of the upper and lower limbs and of the spine	17	11	45	44	10	24	151
V	Organic nervous diseases— epilepsy, disseminated scler- osis, poliomyelitis, hemi- plegia, sciatica, etc.	53	40	188	216	27	41	565
U/W	Neuroses, psychoses and other nervous and mental disorders not included in V	8	3	20	41	5	13	90
X	Tuberculosis (respiratory)	10	15	331	259	28	12	655
Y	Tuberculosis (non-respir- atory)	13	7	51	59	3	5	138
Z	Diseases and injuries not specified above	11	9	33	32	11	24	120
Totals		192	160	865	963	129	335	2644

The Persons in the table above were distributed as follows in the County :—

Division	Number on Register			Total
	Children under 16	Aged 16 to 64 years	Aged 65 years and over	
Altrincham	9	65	19	93
Bebington	1	70	7	78
Cheadle and Wilmslow	35	93	16	144
Crewe	125	384	29	538
Deeside	19	212	43	274
Hyde	6	57	42	105
Macclesfield	55	376	128	559
Mid-Cheshire	17	105	9	131
Nantwich	—	46	1	47
N.E. Cheshire	6	72	13	91
Runcorn	—	28	3	31
Sale and Lymm	10	59	26	95
S.E. Cheshire	27	86	4	117
S.W. Cheshire	3	87	1	91
Stalybridge and Dukinfield	39	88	123	250
Totals	352	1828	464	2644

Epileptics and Spastics

The number of persons on the Registres is not necessarily the total number of persons so handicapped. In regard to the above two important classes, the following are estimated totals :—

(a) Epileptics		
(i)	Children under 16	163
(ii)	Adults	118
(b) Spastics		
(i)	Children under 16	233
(ii)	Adults	68

Care is taken to ensure that, so far as possible, epileptic and spastic persons receive necessary treatment, education and accommodation. Co-ordination is effected when necessary with the residential welfare and the hospital services.

Alterations to Property

Financial help is given towards the cost of adaptations inside or outside the homes of handicapped persons to enable them to overcome their difficulties. During 1961 grants were made to 37 patients, and details of the divisions concerned and the types of work carried out are given below.

<i>Division</i>	<i>No. of Cases</i>	<i>Details of Alterations</i>
Altrincham	5	(a) Provision of ramp. Handrails in bath-room (b) Fittings to W.C. (c) Provision of ramp and run-in and base for shed (d) Provision of ramp (e) Handrails in toilet and bathroom
Bebington	2	(a) Concrete ramp (b) Handrail for bath
Cheadle & Wilmslow	5	(a) Provision of wide bath (b) Provision of handrail in living room (c) Provision of drive (d) Provision of car crossing (e) Widening of path

Alterations to Property—Continued

Division		No. of Cases	Details of Alterations
Crewe	.....	4	(a) Alterations to gateway, drive and footpath (b) Alterations to gateway, drive and footpath (c) Handrail for W.C. (d) Provision of external doors. Concreting yard.
Deeside	.....	3	(a) Footpath crossing (b) Drive and footpath crossing (c) Wooden ramp to door and hoist fixed to ceiling
Hyde	.....	2	(a) Alterations to kerb (b) Handrail
Macclesfield	.....	1	(a) Handrail to staircase
Mid-Cheshire	.....	5	(a) Footpath crossing (b) Footpath crossing and re-surfacing drive (c) Re-surfacing footpath and handrail to footpath (d) Enlarging kitchen and provision of bathroom and toilet—2 persons
Nantwich	.....	—
North-East Cheshire	.....	2	(a) Drive-in and gates (b) Drive-in and gates
Runcorn	.....	3	(a) Path and base for garage (b) Handrail to steps at back of house (c) Path and base for tricycle shed
Sale and Lymm	.....	1	(a) Drive and pavement crossing. Wooden ramp
South-East Cheshire	.....	4	(a) Drive and pavement crossing (b) Drive and pavement crossing (c) Drive and pavement crossing (d) Handrail
South-West Cheshire	.....	
Stalybridge & Dukinfield	—		

Day Clubs or Centres for the Handicapped

Chester City Council has a small centre attended by about a dozen physically handicapped persons each week, two of whom are from the County area. Occupations of the home craft type are taught and social activities enjoyed.

A successful club is being conducted at the Macclesfield Hospital attended by patients from the orthopaedic and geriatric departments of the hospital. Other clubs are held at the Brookfield Clinic, Cheadle, which has 48 members meeting fortnightly and conducted by the W.V.S., and at Hyde where the Cripples Aid Society, Manchester, holds a club weekly. These last two clubs were started in 1961.

In Bebington the handicapped persons club held weekly in the Council Offices, Bromborough, met on 46 occasions and 18 persons made 720 attendances. The club is supervised by one of the health visitors, and a part-time occupational therapist who gives instruction mainly in soft doll making and leatherwork.

Occupational Homework

The County Health Committee pays for an occupational therapist to work approximately half time in the Altrincham and Sale and Lymm divisions. A total of 44 cases received instruction during the year and 538 visits were paid. Knitting, crochet, embroidery, tapestry, marquetry, leather work and rug-making were the most frequent activities.

In the Crewe and Nantwich areas ex-patients of the Oswestry Orthopaedic Hospital received encouragement in home crafts from voluntary visitors and in other parts of the county the local British Red Cross Society members and other interested voluntary helpers supply materials for home occupations.

Cripples' Help Society, Manchester

The area of the above Society extends over a large part of the County and in 1959 agreement was reached on the services which would be provided for handicapped persons by the Society and by the County Council in order to avoid overlapping.

Particulars of all handicapped persons are exchanged by the Society and the Divisional Medical Officers, provided the persons concerned do not object, and the following table shows the number of persons on the register of the Society in each of the Divisions at the end of 1961:—

Altrincham	48	Nantwich	5
Cheadle and Wilmslow	38	North-East Cheshire	50
Crewe	12	Runcorn	2
Hyde	55	Sale and Lymm	68
Macclesfield	37	South-East Cheshire	26
Mid-Cheshire	14	Stalybridge and Dukinfield	81
Total	436		

The County functions cover:—

- (a) general visitation by health visitors
- (b) provision of domestic helps when required
- (c) provision of night sitters-in in exceptional cases only
- (d) payment for special laundering
- (e) adaptations to homes in order that handicapped persons may overcome their handicaps
- (f) provision of "aids"
- (g) in suitable cases, arrangements for convalescence as a means of obtaining rest and change of air if there is a "health" reason for this action
- (h) provision of nursing aids including, in addition to those items usually classed as normal nursing aids, special chairs for spastics, special beds, hoists, three-legged sticks, etc.

The Society:—

- (a) arranges for visitation
- (b) teaches handicrafts when necessary and in connexion with this activity is trying to organise a centre in the Sale and Altrincham district
- (c) arranges for payment to be made to handicapped persons for suitable articles made by them in connexion with handicraft training
- (d) provides special nourishment in appropriate cases
- (e) arranges holidays, convalescence and outings
- (f) provides necessitous disabled persons with clothing
- (g) provides Christmas parcels when required
- (h) lends, when appropriate, invalid chairs, walking aids, page-turning machines and other appliances

Car Badges for Severely Disabled Drivers

To ease the difficulties of severely disabled drivers in finding suitable parking places, the Ministry of Health issued circular 17/61 in July, 1961, recommending that badges should be issued to such drivers for display at the front and rear of their vehicles. While conferring no legal rights or privileges, the badges enable the drivers to be readily identified and assisted in parking, with discretion exercised in their favour wherever possible.

The County Health Committee decided that the issue of the badges should be delegated to the Divisional Health Committees subject to such issue being restricted to drivers whose disability was so severe as to render them able to walk only with difficulty.

Up to 31st December, 1961, the divisions had supplied 139 applicants with badges.

Meals on Wheels

The following information has been supplied by W.V.S. County Office, indicating the scope of the work done in providing meals in the homes of old people.

	<i>Meals served per month*</i>		<i>Meals served per month*</i>
Alderley Edge	157	Marple	192
Altrincham	484	Nantwich	155
Barnton	151	Northwich	176
Bebington	746	Poynton	102
Bollington	89	Runcorn	183
Bredbury & Romiley	499	Sale	399
Congleton	300	Sandbach	154
Crewe	380	Stalybridge.....	250
Dukinfield	208	Weaverham	143
Ellesmere Port	325	Winsford	105
Hale	337	Whitegate	75
Haslington	110	Wilmslow	272
Hazel Grove	365	Wistaston	105
Hoylake	201		
Hyde	950	Total	7,786
Knutsford	173		

* The actual month was June, 1961.

Homes for Old Persons and Disabled Persons

The regulations for registration and inspection of voluntary homes for old people, etc., namely the National Assistance (Registration of Homes) Regulations, 1949, are administered by the County Health Department, and the position for the year ended 31st December, 1961, is shewn below:—

	Homes for Old Persons Number of		Homes for Disabled Persons Number of	
	Homes	Places provided	Homes	Places provided
New Registrations, 1961 —	1	14	1	7
Registrations cancelled, 1961	1	2	—	—
Homes on Register, 31/12/1961	19	389	5	485
Number of Inspections made 1961	16	—	2	—

Section XII.-Sanitary Administration*

FOOD AND DRUGS ACTS, Etc.

A. MILK AND DAIRIES

The Department continued its work during the year in connection with the milk supply, as a contribution towards the aim of ensuring that all milk produced, processed and sold within the County reaches the consumer in a clean and wholesome condition and free from disease-producing organisms.

The scope of the County Council's work in this field was considerably extended as from 1st January, 1961, by the administrative changes brought about by the Milk (Special Designation) Regulations, 1960. These Regulations consolidated and re-enacted with amendments, the Milk (Special Designation) (Raw Milk) Regulations, 1949 to 1954 and the Milk (Special Designation) (Pasteurised and Sterilised Milk) Regulations, 1949 to 1953.

The major change was that under the provisions laid down in the old Regulations, only milk pasteurising and sterilising licences were issued by the County Council. Now all dealers' licences with the exception of Producer/Retailers' Licences (which are granted by the Minister of Agriculture, Fisheries and Food) are granted by the County Council in their "Food & Drugs" area. In other words, milk licensing is now carried out by only two authorities, the Ministry of Agriculture, Fisheries and Food for milk *production* licences (including producer-retailers) and the Food & Drugs Authority for all processing and distributing licences. The County Council are the Food and Drugs Authority for all the County except Crewe M.B., Bebington M.B., Sale M.B., and (from 1st April, 1961) Cheadle and Gatley U.D.C. Also, in the case of Ellesmere Port M.B., it has been arranged for the Borough Council to act as the agents of the County Council in these matters, full co-operation and liaison being maintained between the Chief Public Health Inspector of Ellesmere Port and the County Health Inspector. Thus the County Council became responsible on 1st January, 1961, for the licensing of a very large number of milk distributors throughout the County, with the consequent inspection and sampling work involved.

This considerable increase in the work carried out by the County Health Inspector's Section required reorganisation within the Section and a Deputy County Health Inspector was appointed, taking up his duties in June.

Liaison between the County Council and the District Councils who are the Registration Authorities for distributors and dairies under the provisions laid down in the Milk and Dairies (General) Regulations, 1959, was established and maintained. Joint inspections of 513

* This part of the report includes the work carried out by the County Health Inspector's Section.

Licensed Premises in 9 local authority areas had been carried out by the end of the year, and appropriate action taken in regard to any contraventions of Milk and Dairies Regulations found.

District Councils are given the opportunity of making observations prior to any new licence being issued and copies of all relevant milk sample reports are sent weekly to the medical officer of health concerned together with information of action taken regarding unsatisfactory samples when requested.

Milk Production

Producer licences are granted by the Minister of Agriculture, Fisheries and Food, but a specific duty is laid upon County Councils by the Food and Drugs Act, 1955, Section 31, to administer provisions designed to prevent the sale of tuberculous milk and milk from cows suffering from any infection of the udder likely to convey disease.

For some years it had been the practice to carry out this duty by collecting bulk samples of milk from undesignated farms throughout the County, and to submit these samples to the Public Health Laboratory Service for biological examination for tuberculosis. However, as from 1st March, 1960, Cheshire became a compulsory eradication area under the Attested Herds Scheme so that all undesignated herds under the Attested Herds Scheme so that all undesignated herds became subject to compulsory testing and the slaughtering of reactors. Also the whole of Cheshire is subject to the operation of Specified Areas Orders, so that in the whole County only the specially-designated milks may now be sold (*i.e.* Pasteurised, Sterilised and Tuberculin-tested).

Accordingly a Conference was held in 1960 with the appropriate officers of the Ministry of Agriculture, Fisheries and Food, when it was agreed that the essential thing, so far as biological testing is concerned, is to try to ensure the safety of the public in the case of milk sold raw under the special designation "tuberculin-tested". The other specially-designated milks on sale are, of course, made safe from the point of view of pathogenic organisms by the pasteurisation and sterilisation processes which are under the licensing control of the County Health Department.

It was therefore agreed that all supplies of tuberculin-tested milk sold raw to the public should be submitted to biological and cultural examinations to ensure that the organisms of tuberculosis and brucellosis are not present.

It is the aim of the Department to obtain bulk samples thrice yearly from all the herds in the County from which milk is sold raw to the public and to submit for such examinations quarterly other raw milk sold in the County which is not covered by the herd sampling.

Farm sampling had to be discontinued at the beginning of the year, and was not recommenced until mid-April owing to an outbreak of Foot and Mouth Disease.

There are approximately 400 herds in the County from which milk is sold raw to the public. By the end of the year a total of 987 samples had been submitted for biological and cultural examination, 60 of these samples being found to contain the organisms of brucella abortus (6.1%). This represents an improvement on last years sampling, when 7.6% of samples were found to be infected. Tuberculosis was not isolated in any of the samples.

The distribution of samples submitted for these examinations is as follows:—

Samples	Total Submitted	T.B. Positive	Brucella Positive
Bulk Farm Dealer	702	0	44
Hospital Farms (Ministry of Health)	238	0	14
County Council Premises (Day Nursery)	11	0	0
Schools	6	0	1
	30	0	1
TOTALS	987	0	60

Brucella abortus causes abortion in cattle and is the organism responsible for undulant fever in man. Fortunately, although infection can occur from the consumption of quite small quantities of infected cream or milk, it seems that the general resistance of the human body to brucella is usually high and this probably accounts for the fact that comparatively few human cases of undulant fever are reported.

However, undulant fever is not a notifiable disease, and the symptoms may quite easily be mistaken for those of other illnesses, so it seems quite likely that considerably more cases occur than are reported.

In the case of samples found to contain evidence of brucella infection, the information is immediately conveyed to the Divisional Veterinary Officer of the Ministry of Agriculture, Fisheries and Food and to the Divisional Medical Officer. The Veterinary Officer visits each producer concerned and discusses the question of the eradication of the disease from the herd. Two lines of attack are suggested:— (1) Calfhood vaccination with vaccine S.19., and (2) Individual cow sampling so that the infected animals can be found and isolated. Unfortunately there are no powers at present by which infected animals can be compulsorily dealt with and they can thus be sold in the open market and carry the infection elsewhere.

The Divisional Medical Officers keep in touch with the cases with a view to preventing the milk from infected animals being sold raw to the public. In this field it would appear that the existing legislation for preventing the sale of infected milk is adequate, but that there is considerable variation in the method of its application.

The long term hope is that eventually a programme will be evolved for the eradication of this disease in the same way that tuberculosis has been tackled and eliminated.

In the meantime, it must be made quite clear to the public that raw tuberculin-tested milk is not necessarily safe milk, and indeed many persons are being infected by the consumption of such milk. Efficient heat-treatment is still the only guarantee that milk is free from the organisms of brucella as well as other pathogenic micro-organisms, and any person consuming raw milk or raw cream, even on a single occasion, may contract this disease of undulant fever, which though not normally a fatal disease, can at the same time bring ill-health over a period of months or even years.

In the cases of the positive samples obtained from a school and from a Day Nursery, the raw milk supplies were immediately stopped, and a supply of pasteurised milk substituted.

Processing

The County Council continued its important function of licensing and supervising all milk pasteurising and sterilising plants within its "Food and Drugs" area.

At the beginning of 1961, 22 pasteurising licences and 5 sterilising licences were in operation at 23 different dairies within the administrative area. During the year three pasteurising dairies ceased to process milk. These were all family concerns, the business in two cases being taken over by larger dairies and in the third case pre-packed milk was bought in. In each case the premises and plant are no longer being used for the pasteurising of milk. The control of one dairy for which pasteurising and sterilising licences were in operation passed from the County Council to the District Council when they became a Food and Drugs Authority. Thus, at the end of the year, 18 pasteurising licences and 4 sterilising licences were in operation at 19 different dairies.

The remainder of the small family concerns in the County are, so far, still carrying on, but the tendency is showing itself for milk processing to become concentrated in fewer and fewer large undertakings. In Cheshire we still have all sizes of undertakings from the small family business to several of the largest dairies in the country. In the latter cases the milk is often transported many miles outside Cheshire, and the Department is thus instrumental in safeguarding the milk supplies of large populations outside the County area.

Although the milk processed in the licensed dairies may be subject to sampling and examination by any of the authorities in whose area it is sold, we receive very few notifications of unsatisfactory samples, which confirms the excellent records obtained by our own sampling and inspections.

The Department maintains a close check on the licensed dairies in two ways. Samples of processed milk are collected three times a week from all the plants, and occasionally at week-ends, and these are examined by tests which show whether the milk has been adequately heat-treated and also whether the milk is of a satisfactory standard of cleanliness. Washed bottles are also regularly collected from the pasteurising dairies and brought to the laboratory for examination, to disclose the efficiency of the bottle-washing process in the dairy. In addition to this the County Health Inspector and his Deputy pay routine visits to the dairies from time to time and check, not only the processing, but also the condition of the premises and the general maintenance of good standards of hygiene; this work is very necessary. It is found that a visit, especially to the smaller dairies, will often forestall a sample failure by detecting an incipient fault. But even in dairies where the sampling record is excellent and failures are exceedingly rare, it is found in many cases, unless the Inspector can pay a visit from time to time, the general hygienic standard of the premises tends to deteriorate. In other words, sampling of the milk by itself, however frequent, is not sufficient.

In the case of a milk sample failing to pass the prescribed test, and especially in the case of phosphatase failures, the County Health Inspector or his Deputy make an immediate inspection to try to ascertain the cause of the failure. A phosphatase failure is regarded as a serious lapse on the part of the licence holder, but it seems impossible under present circumstances, completely to eliminate such failures. The majority of the failures occur at the smaller dairies where standards of equipment and supervision are often lower than at the large commercial dairies. The proportion of failures is, of course, very low when one considers the large number of samples taken.

From the figures given it will be seen that there were 34 phosphatase failures. (The phosphatase test is the official test for the correct heat-treatment of pasteurised milk). The total number of samples examined during the year by this test was 7,974. This is a considerable increase over 1960, when 5,236 samples were submitted. The large increase is, of course, due to the dealers' samples which are now taken by the County Council from all milk distributors within the administrative area. This represents a failure rate of 0.43% on the phosphatase test as against 0.25% in 1960, 0.37% in 1959, 0.43% in 1958, and 0.66% in 1957. Of the 34 samples which failed, 17 were samples collected direct from the licensed dairies, 8 from schools (see separate report on Milk in Schools Scheme), 2 from County Council premises and 7 were dealers' samples. There is no doubt that the widespread and thorough nature of the sampling carried out detected a number of phosphatase failures which otherwise would not have been found. One of the phosphatase failures was on milk supplied by a large dairy in one of the County Boroughs in an adjoining County and this was referred to the Health Department of that Authority for in-

vestigation. The remainder were investigated by the County Health Inspector or his Deputy. 19 of the failures were from dairies operating holder-type plant, *i.e.* from the smaller dairies and 14 were from dairies operating the high-temperature short-time plant.

The 14 failures involving H.T.S.T. plants in fact necessitated 10 investigations, because in one case three unsatisfactory samples of milk were processed by a certain dairy on the same day and in two other cases two samples were involved in each incident. The investigations revealed that two failures were due to faulty flow-diversion valve, and the other cases to: inaccurate recording thermometer and faulty flow-diversion valve; raw milk capped as pasteurised; milk which in an emergency was ostensibly pasteurised at another dairy but was in fact raw milk; boiler breakdown; inaccurate recording thermometer; electrical power cuts. In two instances no apparent cause could be found.

The 19 failures involving holder-type plant were found to be due to the following causes:— inadequate temperature—4 failures; insufficient holding time—4 failures; contamination with raw milk—2 failures; inadequate temperature and insufficient holding time—1 failure; raw milk capped as pasteurised—1 failure; inaccurate thermometers—1 failure. In six investigations no apparent cause could be found.

In all these cases, severe warnings were given to the dairies concerned. The number and causes of the failures underlines the need for regular routine inspections of the processing dairies.

The number of bottles of sterilised milk submitted for examination also increased considerably, due to 1,872 dealer samples, from 872 in 1960 to 2,527. None of the samples failed the turbidity test. (The turbidity test is the official test for the correct heat-treatment of sterilised milk). In view of the very rare failures under this test, this sampling is being somewhat reduced in 1962.

A total of 2,499 washed bottles were examined. These are collected by the Sampling Officers from pasteurising dairies in batches of six at approximately three-weekly intervals. The number submitted is less than in previous years owing to a change in procedure. Previously one washed bottle was obtained every time the Sampling Officer collected a milk sample. It was agreed after discussion with representatives of the Public Health Laboratory Service that the revised procedure gave a truer picture of the efficiency of bottle-washing plant. Of the 2,499 bottles examined the majority were found to be satisfactory but 72 fell into the "fairly satisfactory" category and 144 were "unsatisfactory". In these cases appropriate action was taken to correct inadequacies of plant or methods. Although these examinations and standards have no statutory authority they are a most useful means of checking the efficiency of bottle-washing at the dairies concerned. It is found that even a modern bottle-washing machine does not necessarily produce clean and commercially sterile bottles.

Distribution

The administrative changes introduced as a result of the new Regulations have already been discussed earlier in this report. The County Council in their capacity of Food and Drugs Authority became responsible from 1st January 1961, for issuing all dealers' Licences with the exception of Producer/Retailers' and this, of course, included the duty of sampling and inspection.

At the beginning of, and during the year, 35 Dealers' (Tuberculin Tested) Licences were issued authorising the holder to buy in bulk raw tuberculin-tested milk from other licensed premises, and to bottle and sell it as such, and 1,425 Dealers' (Pre-packed Milk) Licences, which authorise the holder to buy in and sell Pre-packed milk from other licensed premises.

At the end of the year 34 Dealers' (Tuberculin Tested) Licence^s and 1,262 Dealers' (Pre-packed Milk) Licences were in operation in the County's Food and Drugs Area.

Systematic dealer sampling was arranged to give a coverage of all the licensed dealers according to the types of milk being sold (one licence may authorise the sale of all the three specially-designated milks) Retail sampling of producer-retailers was also carried out. Although producer-retailers operate under Ministry licence, the Ministry sample only on the farm, and it is considered essential to sample these milks during course of retail delivery in order to give adequate protection to the consumers. Milk coming into the County for retail sale from surrounding areas was also subjected to sampling. Samples were also taken in course of delivery to schools and to other County Council premises, and from a small number of Hospital Farms at the request of the Ministry of Health. It can thus be fairly claimed that all milk sold to the public in Cheshire is now sampled and controlled by the County Health Department.

The following table summarises this work and the results obtained:

	RAW MILK			PASTEURISED MILK			STERILISED MILK		
	Total No. of Samples	Meth. Blue Fails.	Voids	Total No. of Samples	Meth. Blue Fails.	Voids	Phos. Fail-ures	Total No. of Samples	Turb. Fails.
Dealer Samples	1,209	209	29	2,591	71	18	7	1,872	—
School Samples	46	9	—	1,925	81	17	8	—	—
C.C. Premises Samples	9	3	—	459	15	4	2	—	—
Hospital Farms	25	1	—	—	—	—	—	—	—
TOTALS:	1,289	222	29	4,975	167	39	17	1,872	—

It will be seen from the above table that 17.22% of raw milk samples and 3.34% of pasteurised milk samples taken in the course of retail delivery failed the methylene blue Test (for cleanliness and keeping quality). These figures leave it in no doubt where the problem lies. In fact during the summer months approximately 1/3rd of all raw milk samples failed the methylene blue test and more than half of these samples were from producer-retailers. It would appear that during warm weather great care has to be taken in production, and the milk must be retailed as soon afterwards as practically possible. The statutory test to check the hygienic quality of milk at the production stage is the clot-on-boiling test, unfortunately this does not take into account the age of the milk when it will be delivered to the retail customer.

Procedure in the event of a methylene blue test failure on a sample of raw milk is this: the producer-retailer, or the dealer, wholesaler if any, and producer, also the Divisional Milk Officer of the Ministry of Agriculture, Fisheries and Food (who is responsible for clean milk production on farms), are notified. A repeat sample is taken two weeks later and should this fail, all interested parties are again notified and attention requested. If investigation and advice by the Ministry of Agriculture, Fisheries and Food is indicated, the Divisional Milk Officer is requested to carry it out. If the sample is sold by virtue of a County Council licence the failures are investigated by the County Health Inspector or his Deputy. In one such investigation it was found that there was an undue delay in farm-bottled milk, which passed through the hands of a large dairy, reaching the retail distributors. Informal action resolved this particular problem.

Similarly a number of failures occurred on samples from milk vending machines, again particularly where raw Tuberculin-tested milk was being sold. Here again, the trouble was found to be unsatisfactory servicing, *i.e.* milk being left in the machine too long. Although these machines are refrigerated it is essential to have a proper routine of servicing.

In the majority of cases the initial informal action had the desired effect, the repeat samples proving satisfactory.

The procedure for dealing with methylene blue test failures on samples of pasteurised milk differs only in the persons notified. The dealer and processor are informed and if the milk originates outside the County area, the licensing authority concerned. Failures on repeat samples of pasteurised milk are comparatively rare.

Several of the larger pasteurising dairies include a system of coding on the foil caps of their bottles. This is noted by the sampling officer on his report. Should the sample fail, the age of the milk can be found. This assists greatly in finding the possible cause of the failure and in preventing similar troubles in the future.

Records for the comparison of methylene blue test failure results of previous years are not available in view of the fact that the County Council only took over dealer sampling at the beginning of the year. It would however appear that there has been an increase in the number of failures (See Report on Milk in Schools Scheme).

The new Milk (Special Designation) Regulations, 1960, had the effect of making the methylene blue test more stringent so that, in effect, both pasteurised milk and tuberculin-tested (raw) milk must now conform to a higher standard of keeping-quality and cleanliness in order to be able to pass the test throughout the year. As part of this higher standard, the methylene blue test is not now void until the atmospheric shade temperature during storage overnight exceeds 70° F., whereas previously the temperature was 65°F. Also, in the period from 1st November to 30th April, instead of being kept at atmospheric shade temperature overnight, the milk is kept at 65°F., *i.e.*, it is, in effect, kept artificially warm during storage period overnight. Another factor affecting the failure rate is that as a result of standard procedure and sampling coverage the unsatisfactory dealers are given special attention by way of repeat sampling.

In no case has it been considered necessary to institute statutory proceedings with a view to suspending or revoking a Dealer Licence.

Washed bottles from Dealers' (Tuberculin Tested) Licensed premises were collected by the Sampling Officers in the same way as from the pasteurising dairies. A total of 111 examinations were made. 93 were satisfactory, 1 was fairly satisfactory, and 17 were unsatisfactory. Advice was given to the dairyman where necessary, resulting in improved bottle-washing technique.

Milk in Schools Scheme

All milk supplies under this Scheme are subject to the approval of the County Medical Officer, and the County Health Department supervises all supplies by means of systematic sampling, and by routine inspections of dairies within their jurisdiction from which school milk supplies emanate.

Any new supply proposed for any particular school is first referred by the Director of Education to the Health Department for approval.

So far as the approval of particular sources is concerned, a suitable supply of pasteurised milk is obtained wherever possible. If this is not available, a supply of tuberculin-tested (raw) milk has, so far, been accepted.

As will be seen from the table at the end of this section, at the end of the year, only six of the 662 schools in the county were being supplied with raw tuberculin-tested milk. This is two less than last year, and the whole of the remainder have a supply of pasteurised milk.

No school in the county was without a supply of liquid milk at any time during the year.

During 1961, sampling of all school milk supplies throughout the County continued, all samples being collected as the milk was being delivered to the schools themselves. A total of 2,030 samples was collected, as compared with 1,705 in 1960. All the schools in the administrative county are visited with the exception of the 32 schools in the area of the Crewe Borough Council. Here the Borough Health Department carry out regular school milk sampling by arrangement with the County Health Department and notify all results. During 1961, 59 samples were collected at the Crewe schools. All were satisfactory on both the methylene blue test and the phosphatase test.

Of the 1,925 samples of pasteurised milk collected by the County Health Department, 81 samples failed the methylene blue test (for cleanliness and keeping quality), and eight samples failed the phosphatase test (for adequate pasteurisation).

Immediate action in the case of sample failures is taken by the County Health Inspector.

The 81 methylene blue test failures were a very substantial increase on the figures for 1960, when only three samples failed this test. The failures occurred mainly in the summer months and were widespread, involving the majority of the supplies. The big increase was no doubt largely due to the new Regulations governing the carrying out of the test, which operated from 1st January, 1961, under the Milk (Special Designation) Regulations, 1960. The new Regulations had the effect of making the test more stringent so that, in effect, both pasteurised milk and tuberculin-tested (raw) milk must now conform to a higher standard of keeping quality and cleanliness in order to be able to pass the methylene blue test throughout the year. As part of this higher standard, the methylene blue test is not now void until the atmospheric shade temperature during storage overnight exceeds 70°F., whereas previously the temperature was 65°F. Thus in 1960, in 74 cases the test was void, while in 1961, in only 17 cases was the test void.

Appropriate action was taken in the case of all these failures, and repeat samples were taken to ensure that a satisfactory standard was attained.

The eight samples which failed the phosphatase test compare with five failures on 1,670 samples in 1960. Six dairies were concerned with the failures, one being situated in the area of an adjoining County Borough and referred to the Health Department of that authority for appropriate action. It is understood that a wrong setting on the pasteurising plant was the reason for this very bad failure.

The remaining failures were from dairies situated in Cheshire. Three were samples taken on the same day from three different schools supplied by the same firm. The milk was practically raw, and although intensive investigations were made, the cause of the error could not be traced. All that could be said was that something very extraordinary had occurred in the dairy on the Sunday which would not have been detected unless these samples had been collected en route to the schools the next morning. Two other cases occurred where the samples were raw or very nearly raw milk. One was from one of the best and largest dairies in the county, from which sample failures are exceedingly rare. Again the trouble occurred on a Sunday when power failures occurred and at the same time the manager, assistant manager, and chief laboratory technician were all absent. The second was from one of the medium-sized dairies, and here again the trouble occurred on a Sunday when the Manager was away, and an inexperienced assistant manager was in charge. The pasteurising plant broke down and could not be put into working order again without some delay. Bulk milk was accordingly obtained from another dairy, which was thought to be pasteurised milk, but in fact was raw milk, only brine-cooled. This milk was bottled as pasteurised and duly supplied to a number of schools the next day. The whole of this operation was, in fact, illegal, as pasteurised milk must in any case be bottled where it is processed, and, of course, what actually happened was that raw milk was bottled as pasteurised.

The two other phosphatase failures were cases of inadequate pasteurisation due in one instance to the use of a small stand-by boiler while alterations were being carried out in the dairy, and in the other instance to the use of inaccurate plant thermometers.

In all these cases, severe warnings were given to the dairies concerned. However, these failures, and the circumstances under which they were obtained and which they disclosed, serve to underline the value of this sampling which is carried out in course of, or at the time of, delivery to the schools.

In addition 46 samples of tuberculin-tested (raw) milk were collected, and of these nine samples failed the methylene blue test for cleanliness and keeping quality. In 1960, 33 samples of such milk were collected and none failed the test. The remarks given above regarding the higher standard now imposed by the test apply again here. The sample failures were immediately notified to the Ministry of Agriculture Fisheries and Food, which is responsible for clean milk production on the farms, with a request for appropriate action. Repeat samples were then, in general, found to be satisfactory, but in one case a total of nine samples were collected during the year, of which five were unsatisfactory. This is the supply to a school in a very isolated area where no pasteurised milk is available and where there is difficulty in obtaining alternative sources of supply. Both the Ministry and the producer were pressed

for improvement, and the Ministry had to go to the length of statutory action before substantial improvement could be obtained. I am pleased to report that at the time of writing this report all samples of this milk obtained during 1962 have been satisfactory.

In addition to the examinations quoted above, these raw T.T. supplies are given special attention by way of biological examination in view of the fact that they *are* raw milks.

During the year, 30 samples were examined by the guinea-pig test for the presence of the organisms of tuberculosis and abortus fever, and in one case the organisms of abortus fever were detected. This supply was immediately stopped and it was found possible to replace it by a supply of pasteurised milk.

The efficiency of the washing of school milk bottles at the dairies licensed by the County Council was checked by the collection of 327 washed school milk bottles from these dairies when the sampling officers were visiting for the purpose of other sampling under the Milk and Dairies Regulations. On the colony count (a test for the bacteriological cleanliness of the bottles), 301 were found to be satisfactory, 20 fairly satisfactory, and six unsatisfactory. Appropriate action was taken in the latter cases.

It is thus seen that a considerable amount of work is carried out to try and ensure that each day while the schools are open, the whole of the 114,000 or so pupils who take school milk receive an article which is clean and free from all pathogenic organisms and is delivered in clean undamaged containers.

Occasional complaints do arise regarding dirty bottles, cracked or broken bottles, foreign bodies in the milk (including, sometimes, glass splinters), dirty condition of crates and unsatisfactory service. In the case of foreign bodies in the milk, these cases are dealt with by the Weights and Measures Department which investigates and deals with the matters appropriately, if necessary instituting proceedings. The remaining matters are dealt with by the County Health Inspector, in some cases in co-operation with the local health departments.

In almost all instances, the bottles are satisfactorily dealt with at the schools, i.e. the bottles are emptied completely, caps and straws removed and the bottles placed for collection the next day. Under these circumstances, and even though no rinsing of school milk bottles is carried out at the schools, the dairies should have no difficulty in seeing that all bottles are adequately cleansed before refilling, thus complying with their legal responsibilities. It inevitably happens however, from time to time, that a certain number of school milk bottles are mislaid or misused, and it does mean in these cases that the dairies must give such bottles special treatment to get them into a clean and sterile condition again, and fit for use as milk containers.

Tables are given below showing the sampling which was carried out during 1961 and the results of such sampling, also the position regarding school milk supplies at the end of the year.

SCHOOL MILK SAMPLES AND EXAMINATIONS, 1961

	Total Samples Collected	Phosphatase Test		Methylene Blue Test*	
		Passed	Failed	Passed	Failed
Pasteurised	1984	1976	8	1886	81
Tuberculin-tested (raw)	46	—	—	37	9
TOTALS	2030	1976	8	1923	90

*The Methylene Blue test was void in 17 cases owing to high atmospheric shade temperature.

At the end of 1961, the position in the county regarding school milk supplies could be summarised as follows:—

Type of Milk	Schools sampled by Cheshire C.C.		Schools sampled by Crewe M.B.C.		No. of Children ‡ supplied	
	No. of different supplies of milk	No. of schools supplied	No. of different supplies of milk	No. of schools supplied	Total	As % of Total
Pasteurised	29	624*	1	32†	114,109	99.88
Tuberculin-tested (raw)	6	6§	—	—	140	0.12
TOTALS:	35	630	1	32	114,249	—

‡ Figures obtained from a census taken on a selected day in October, 1961.

* Includes 102 non-maintained Schools.

† Includes 1 non-maintained School.

§ Includes 1 non-maintained School.

(The milk in Schools Scheme has applied to non-maintained schools since 1st September, 1956, and all children attending both maintained and non-maintained Schools are entitled to one-third of a pint of milk free daily).

Public Health Laboratory Service

All milk and associated examinations are now carried out on behalf of the County Council by the Public Health Laboratory Service of the Ministry of Health. The Chester Laboratory is used for samples from all parts of Cheshire except the north-east, samples from this area being dealt with by the Laboratory at Monsall Hospital, Manchester.

Statistics.

(1) Analysis of Milk Samples collected during 1961:—

	RAW (T.T.) MILK				PASTEURISED MILK					STERILISED MILK		
	Total	M.B. Sat.	M.B. Fail.	Void*	Total	M.B. Sat.	M.B. Fail.	Void*	Phos. Sat.	Phos. Fail.	Total	Turb. Fail.
Dairy Samples	—	—	—	—	2,999	2,976	8	15	2,982	17	655	0
School Samples	46	37	9	—	1,925	1,827	81	17	1,917	8	—	—
Home Samples	9	6	3	—	459	440	15	4	457	2	—	—
Hospital Farms	25	24	1	—	—	—	—	—	—	—	—	—
Dealers' Samples	1,209	971	209	29	2,591	2,502	71	18	2,584	7	1,872	0
TOTALS:	1,289	1,038	222	29	7,974	7,745	175	54	7,940	34	2,527	0

* Because of very high atmospheric shade temperature during storage overnight in the summer period.

(2) Results of Bottle Examinations:—

	Satisfactory	Fairly Satisfactory	Un- satisfactory	Total
Pasteurising Dairies	2,190	71	127	2,388
T.T. Bottling Dairies	93	1	17	111
TOTALS:	2,283	72	144	2,499

(3) Summary of all Samples collected during 1961:—

From Milk Pasteurising and Sterilising Establishments	3,654
In course of delivery to Schools	1,971
In course of delivery to other County establishments	468
From dealers, including producer-retailers and vending machines	5,672
From Hospital Farms (for Ministry of Health)	25
From Farms (for biological and cultural examinations)	702
Total Milk Samples collected	12,492
Washed bottles submitted for examination	2,499
Total specimens submitted	14,991

B. FOOD AND DRUGS.

The Chief Inspector of Weights and Measures (Mr. Howard Hughes) reports as follows on the work of his department whose officers are responsible for the enforcement of those provisions of the Food and Drugs Act and the many regulations which are designed to prevent the sale of adulterated or non-standard foods and drugs.

The County Council is the Food and Drugs Authority for the whole of the Administrative County except the Municipal Boroughs of Crewe, Sale and Bebington and to this list must now be added the Urban District of Cheadle and Gatley which has become the Food and Drugs Authority for the area during the past 12 months. The work of administration is of a routine pattern in which the officers of the Weights and Measures Department obtain samples of foods and drugs of many varieties from shopkeepers and other traders, based on figures of approximately three per thousand of the population. All these samples are submitted to the Cheshire Public Analyst (J. Graham Sherratt, Esq., B.Sc., F.R.I.C.) for analysis and comment as may be necessary.

The total number of samples obtained and submitted for analysis during the year was 2,111, with milk receiving most attention due to the fact that it is an important staple food and one which can easily be mishandled.

An indication of the variety of articles obtained for analysis during the year is given in the following list together with particulars of those which were adversely reported upon by the Public Analyst:—

<i>Article</i>	<i>Total Analysed</i>	<i>Samples certified as adulterated or otherwise not in order</i>
Bread	4	3
Caraway Seeds	2	2
Cloves, Whole	1	1
Flour, Plain	10	1
Glauber Salts B.P.	7	1
Halibut Liver Oil Capsules	5	2
Ham, Boiled	2	1
Herbs, Mixed	2	1
Ice Lolly	27	3
Invalid Butter Toffee	1	1
Lemonade	1	1
Milk	1256	83
Oatmeal	3	2
Onions, Sliced	2	1
Orange Drink	2	2
Peas, Split	1	1
Pincapple Pieces in Extra Heavy Syrup	1	1
Rhubarb in Heavy Syrup	1	1
Sausage, Beef	18	5
Sausage, Pork	35	10
Soda Water	2	2
Vegetable Juices	1	1
Whey Cheese	1	1
B.P. Official preparations, simple household medicaments, etc	101	—
Miscellaneous groceries and unclassified articles	625	—
	2111	127

Of 1,256 milk samples obtained for analysis 83 were reported as adulterated or not up to the required standard. Of these 43 were sub-standard in quality due to some abnormality of the cows, 19 contained extraneous water and 17 were deficient in fat. In addition four were reported to contain varying quantities of dirt.

The number of samples of milk reported as containing extraneous water shows an increase on last year's total as will be seen from the table below but in considering the position it is pointed out that seven samples were obtained from one consignment of seven churns and in another case six samples were obtained from another consignment, all of which contained added water.

Comparative figures for recent years are as follows:—

<i>Milk Samples</i>			
	1959	1960	1961
No. containing extraneous water	26	4	19
No. deficient in solids-not-fat (Sub-normal)	85	45	43
No. deficient in fat	18	18	17
No. containing dirt. etc.	4	—	4
Totals	133	67	83

Legal proceedings were necessary in five cases and the sellers were involved in fines and costs totalling £237 3s. 0d. The fine in one case amounted to £162.

In a prosecution which was instituted on behalf of a householder concerning a bottle of milk which she had purchased and which was reported to contain 54.1% of extraneous water, the sampling procedure carried out was questioned and at the hearing the case was dismissed. The prosecution claimed that the Inspector was acting as an Authorised Officer but defending Counsel argued that the sample was 'procured' within the meaning of the Food and Drugs Act, 1955 (although there had been no intention on the part of the officer to submit the article as such) and that the Information was accordingly out of date. He also claimed that the defence was entitled to the benefit of sub-section 4 of Section 94 of the Food and Drugs Act in that the bottle was effectively closed and sealed when it was delivered. A further point raised was whether the Public Analyst's certificate was acceptable without the presence of the Public Analyst himself.

In view of the Magistrates decision in this case and its effect in future investigations concerning purchasers complaints the Clerk of the Council advised an Appeal to the High Court referred to as (*Dwerryhouse v. United Co-operative Dairies Ltd*), in which I am glad to say that the findings were in favour of the County Council. In brief, this means that the Information was not out of time and that the defence under sub-section 4 of Section 94 of the Food and Drugs Act was not open to the Respondent. The Court held however, that the Justices were right in refusing to admit the Public Analyst's certificate as evidence in his absence. The effect of the Judgement is that it clarifies the procedure which is to be carried out when dealing with articles concerning which complaints have been made to the Department by private purchasers.

In addition to the above-mentioned, action was necessary in several cases concerning milk and other articles of food which were reported to be grossly contaminated with dirt or some other foreign matter.

Sediment reported in three samples of milk and a deficiency of 66% fat in another were serious enough to warrant legal action against the vendors concerned. Action was also taken against a trader for selling a loaf of bread contaminated with oil and rust and in another case against the sellers of oatmeal which contained a live beetle and grubs. Heavy fines were inflicted in all these cases which in total amounted to £78 10s. 0d.

A full list is shown below of some 44 samples other than milks which were reported as non-standard or else contaminated with foreign matter. Many of the samples referred to were concerned with faulty labels and deficiencies of a minor nature, but nevertheless, manufacturers and shopkeepers were contacted and cautioned as necessary. Particulars of the action taken in each case is shown in the table and includes the results of several prosecutions already referred to:—

- 1 **Boiled Ham.** Contained 34 p.p.m. sulphur dioxide preservative. Seller cautioned.
- 2 **Beef Sausage.** 140 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 3 **Vegetable Juices.** Deficient in ascorbic acid. Sellers cautioned.
- 4 **Pork Sausage.** 200 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 5 **Lemonade.** Abnormal flavour due to fermentation. Manufacturer cautioned.
- 6 **Pineapple Pieces in Extra Heavy Syrup.** Strength of syrup not in accordance with Code of Practice. Referred to Cannery.
- 7 **Bread.** Contaminated with oil and mineral matter. Manufacturers cautioned.
- 8 **Invalid Butter Toffee.** Quantity of butter fat not in accordance with Code of Practice. Referred to Manufacturer.
- 9 **Rhubarb in Heavy Syrup.** Strength of syrup not in accordance with Code of Practice. Referred to Cannery.
- 10 **Mixed Herbs.** Label did not conform to Labelling of Food Order. Seller cautioned.
- 11 **Pork Sausage.** 175 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 12 **Pork Sausage.** 200 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 13 **Bread.** Contaminated with flour, oil and iron compounds. Seller cautioned.
- 14 **Beef Sausage.** Contained 240 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.

- 15 **Pork Sausage.** Contained 224 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 16 **Pork Sausage.** Contained 90 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 17 **Beef Sausage.** Contained 240 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 18 **Split Peas.** Contained 5% damaged or defective peas. Seller cautioned.
- 19 **Whole Cloves.** Contained an excess of stalk. Sellers cautioned.
- 20 **Caraway Seeds.** Contaminated with six pellets of rodent excrement. See formal sample 21.
- 21 **Caraway Seeds.** Contaminated with one pellet of rodent excrement. Sellers cautioned.
- 22 **Pork Sausage.** Contained 210 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 23 **Beef Sausage.** Contained 205 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 24 **Ice Lolly.** Label did not conform to the Labelling of Food Order. Manufacturer cautioned.
- 25 **Bread.** Contaminated with flour, oil and iron compounds. Bakers fined £5 and £4 19s. 0d. costs.
- 26 **Pork Sausage.** Contained 140 p.p.m. of undeclared sulphur dioxide preservative. Seller cautioned.
- 27 **Ice Lolly.** Label did not conform to the Labelling of Food Order. Manufacturer cautioned.
- 28 **Orange Drink.** Slightly contaminated with paraffin. See formal sample 29.
- 29 **Orange Drink.** Slightly contaminated with paraffin. Manufacturer cautioned. Stocks withdrawn.
- 30 **Whey Cheese.** Partially dried whey mixed with added fat. Term "Whey Cheese" not a satisfactory name. Still under investigation.
- 31 **Oatmeal.** Contaminated with grub, and insect webbing. See formal sample 32.
- 32 **Oatmeal.** Contaminated with a living beetle, grubs, insect webbing and heavily infested with meal mites. Sellers fined £5 and £8 10s. 0d. costs.

- 33 **Beef Sausage.** Contained 180 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 34 **Halibut Liver Oil Capsules.** Incorrectly labelled. Did not conform to labelling requirements. of the current B.P. Manufacturer cautioned.
- 35 **Pork Sausage.** Contained 250 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 36 **Pork Sausage.** Contained 290 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 37 **Soda Water.** 54% deficient in sodium bicarbonate. See formal sample 38.
- 38 **Soda Water.** 66% deficient in sodium bicarbonate. Manufacturer cautioned.
- 39 **Ice Lolly.** Label did not conform to Labelling of Food Order. Manufacturer cautioned.
- 40 **Glauber Salts, B.P.** Deficient in moisture content. Stock withdrawn. Seller cautioned.
- 41 **Onions, Sliced.** Contained 109 p.p.m. Sulphur Dioxide. Sellers cautioned.
- 42 **Pork Sausage.** 65 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 43 **Flour, Plain.** Contained an excess of creta praeparata. Referred to Millers.
- 44 **Halibut Liver Oil Capsules B.P.** Did not conform to labelling requirements of the current B.P. Manufacturer cautioned.

This report has so far dealt with those articles of food and drugs which were submitted to the Public Analyst for analysis with details of action taken in regard to the adulterated or non-standard samples. It is pointed out, however, that during the year numerous complaints were received from *householders* all of which concerned food or drugs purchased by them in the ordinary way and found to contain objectionable foreign matter. Owing to the obvious nature of the contamination, none of these articles were referred to the Public Analyst and consequently do not appear in any of his returns. Every complaint, however, was fully investigated, and in the more serious cases legal action was necessary. Brief particulars of the type of offence and the fines imposed are shown below:—

<i>Offence</i>	<i>Fines and Costs</i>		
	£	s.	d.
Loaf containing bandage	25	0	0
Pie containing a fly	15	7	6
Scone containing nail	10	0	0
Soda water containing insect	8	3	0
Fruit tart containing beetle	39	11	2
Milk containing flies	10	5	0
Meat pie containing slug	25	15	0
Biscuit containing wasp	10	0	0
Loaf containing bandage	20	0	0
Milk containing glass splinters	5	5	0
Milk containing glass splinters	5	5	0
Milk containing glass splinters	17	7	0

Several complaints were also received during the year from Head Teachers concerning glass splinters found in school milk and of six such incidents legal proceedings were recommended in three cases against the suppliers. All the prosecutions were successful, the Magistrates imposing fines as referred to above.

In less serious cases verbal or written cautions were forwarded as appropriate.

Although the number of unsatisfactory samples reported by the Analyst for the year indicates a considerable increase, that is 127 compared with 97 for the previous year, it has already been pointed out that adverse criticism in many cases related to faulty labels or other defects of not too important a nature. With these eliminated from the list only a few cases were left for serious investigation. Generally speaking the quality of food and drugs obtained by the Department's Officers as ordinary routine purchases can be considered as satisfactory.

What is distasteful however, is the number of householders who find it necessary to contact the Department with complaints concerning foodstuffs which have been found to contain foreign matter such as flies, beetles, slugs, maggots, etc. These incidents have become far too common of late, which leaves the Department no alternative but to prosecute offenders in the more serious cases where foodstuffs have been sold to the prejudice of the purchaser.

WATER SUPPLIES, SEWERAGE AND SEWAGE DISPOSAL

Work on many schemes continued during 1961, and in addition many further schemes were in the various preliminary stages of preparation. In the last report a comprehensive summary was given regarding the position of the sewerage and sewage disposal services in the County, and it is not proposed to repeat this each year, but to review the position possibly every five years.

Regrouping of Water Undertakings

In common with the rest of the country, this reorganisation slowly proceeded in Cheshire.

The Manchester Water (No. 3) Order, 1961, had the effect of tidying up the somewhat involved water supply situation in the eastern part of Mid-Cheshire. By this Order Manchester became the Water Authority for the following areas:—

- (1) The Parishes of Bueklow Rural District formerly served by the Rural Council's Undertaking. (Date of transfer, 1st April, 1961)
- (2) The Parish of Warburton in Bueklow Rural District, formerly served by the Lymm U.D.C.'s Undertaking. (Date of transfer, 1st April, 1961.)
- (3) The Parishes of Marthall and Little Warford in Bueklow Rural District, formerly served by the Stockport Undertaking. (Date of transfer, 1st April, 1961.)
- (4) The Urban District of Knutsford, and the Parishes of Bexton, Mere, Tatton, Tabley Superior and Toft (Part) in the Bueklow Rural District, formerly in the Knutsford Light and Water Company's area of supply. (Date of transfer, 1st July, 1961.)

The total effect of this is that the whole of the Bueklow Rural District and the Knutsford Urban District are now within the Manchester Corporation's supply area.

On 1st April, 1961, the Water Undertaking of the Tarvin Rural District Council was transferred to the Mid and South-East Cheshire Water Board. This means that the whole of the Rural District is now served by the Board, with the exception of Churton and Farndon, which are served by the Wrexham and East Denbighshire Water Company, and Waverton which is served by the Chester Waterworks Company. The Mid and South East Cheshire Water Board's area thus now extends from Newbold Astbury (Congleton) in the east to Crewe-by-Farndon in the west, and from Comberbach in the north to Dodeott-eum-Wilkesley in the south.

As from 1st October, 1961, the Water Undertaking of the Lymm Urban District Council was transferred by agreement to the Warrington County Borough Council. This links up with Runcorn Rural District which is already served by the Warrington Corporation Water Undertaking.

Negotiations were still proceeding with regard to the amalgamation of the Water Undertakings on the Wirral, *i.e.* the West Cheshire Water Board, the County Boroughs of Birkenhead and Wallasey, and the Urban District Councils of Hoylake and Neston.

Discussions also continued throughout 1961 between Stockport Corporation and the local authorities served by the Corporation with a view to the formation of a Water Board upon which all the authorities would have representation. The County Council took an active part in these discussions, and by the end of the year an agreed draft order had been prepared and deposited.

Financial Assistance to District Authorities

For many years the County Council has given financial assistance to District Councils towards the cost of approved water supply, sewerage and sewage disposal schemes. Under the Rural Water Supplies and Sewerage Acts approved schemes for rural localities may qualify for assistance both from the Central Government and from the County Council. These grants will still continue.

The County Council has also operated a scheme of financial assistance, applying to all the district authorities in the County, under Sec. 307 of the Public Health Act, 1936, and more latterly under Section 56 of the Local Government Act, 1958. This scheme has been based on the rate burden of the authorities in connection with these services, councils with a greater than average rate burden qualifying to receive assistance from the County Council. However, under the provisions of the latter Act, a new grant structure came into operation on 1st April, 1959, under which "rate deficiency grants" are payable to local authorities according to their resources and burdens. Also, by the operation of the regrouping of Water Undertakings, commented upon in a previous paragraph, there has been a steady reduction in the number of separate local authority owned water undertakings in the County, and again, water charges have tended to become similar over wider areas of the County since the present County Scheme of Financial Assistance was introduced in 1946.

These implications have been under review for some time, in consultation with the three Cheshire Local Authority Associations, and agreement was finally reached, and confirmed by the County Council at its meeting on 9th November, 1961, that the County Scheme of Financial Assistance should be gradually terminated over a period of four years commencing on 1st April, 1959. This means that no grants under the Scheme will be payable after 31st March, 1963.

Grants under the Rural Water Supplies and Sewerage Acts are not affected, of course, by this decision, and will continue as before. The County Council has also recommended that in order to maintain the mutual advantages which have been gained in the past by consultation between the County Council and District Councils, the District Councils should continue to consult the County Council when any major scheme of water supply or sewerage is being planned (*i.e.* other than a scheme under the Rural Water Supplies and Sewerage Acts, which would be submitted to the County Council in any case).

Also, of course, a District Council may still make application to the County Council for assistance under Section 56 of the 1958 Act if it is considered that special circumstances make such an application necessary.

For the Financial Year ended 31st March, 1961, a total of £50,627 was contributed by the County Council to the County district councils who qualified in one of the ways specified above, and for the year ended 31st March, 1962, the total was £51,778.

During the year 1961, two schemes of water supply estimated to cost £6,515, and twenty schemes of sewerage and sewage disposal estimated to cost £1,783,872, were considered by the Department, and brief outlines of these schemes are given below.

Water Supplies

Mid and South East Cheshire Water Board

Water Supply Scheme for the parish of Bradley in the Tarvin Rural District at an estimated cost of £3,515. The Scheme provides for the laying of 1,700 yards of 4" main and 440 yards of 2" main, providing a link between existing mains at Stag Hall and Top Farm, Bradley, and giving a mains water supply to fifteen properties for the first time.

Macclesfield District Water Board

Water Supply Scheme for the Pexhill Road area of Gawsworth at an estimated cost of £3,000. The scheme provides for the duplication of the existing water main in Pexhill Road by the laying of 900 yards of 6" main to meet increased demands and to improve the supply and pressure.

Sewerage and Sewage Disposal

Northwich Rural District Council

Revised sewerage and sewage disposal scheme for the parish of Comberbach, at an estimated cost of £33,750. (See 1960 Report)

Sewerage Scheme for the Quarry Lane and Willington Lane areas of Delamere at an estimated cost of £38,955. The scheme provides for the laying of 5,936 yards of 6" sewer with connections to the adjacent sewerage system which is to be provided by the Tarvin Rural District

Council in Kelsall, and for the treatment of the flow at the disposal works to be provided by that authority. The proposed sewers will serve 168 existing properties and 83 future properties.

Sewerage Scheme for the village of Bostock at an estimated cost of £6,056. This Scheme provides for the laying of 1,060 yards of 6" sewer from the village to connect to the existing 12" sewer at Peckmill, and will afford main drainage facilities for 22 properties most of which at present have pail closets. This scheme will enable the Bostock Estate to modernise the properties and the Estate will make a contribution of £1,250 towards the cost of the sewerage.

Nantwich Urban District Council

Sewerage Scheme for Birchin Lane, Nantwich, at an estimated cost of £867. This scheme provides for the laying of 255 yards of 12" foul sewer to relieve pressure on the existing 9" sewer which is not now capable of taking the increased flow following new development in the area.

Neston Urban District Council

Revised sewerage and sewage disposal scheme for Burton at an estimated cost of £20,984. The scheme provides for the sewerage of the main area of the village and the construction of a disposal works, and is an enlargement of a scheme previously dealt with in 1955.

Extension of the above scheme to provide facilities for a proposed Primary School in Puddington Lane and adjacent properties at an estimated cost of £2,321.

Bebington Municipal Borough Council

Sewerage Scheme for Raby village at an estimated cost of £5,200. The scheme provides for the laying of 976 yards of new sewer to link up with an existing 9" sewer, and to convey the sewage from the village to the disposal works at Thornton Hough, enabling 17 properties, including 4 farms, to be connected to the sewers.

It is of interest to note that this scheme, although submitted by a Borough Council, was dealt with under the Rural Water Supplies and Sewerage Acts, Raby being regarded as a "rural locality" for the purposes of the Acts. The Ministry of Housing and Local Government agreed with this view, and at the time of writing this report both Exchequer and County Council grants have been approved.

Congleton Rural District Council

Sewer extension scheme in Woodcocks Lane, Odd Rode at an estimated cost of £1,115. The scheme provides for the extension of an existing sewer by 188 yards of 6" sewer to provide facilities for future development on the slopes of Mow Cop. This scheme was approved with the recommendation to the Rural District Council that they should apply the provisions of Section 93 and the Fourth Schedule

of the Cheshire County Council Act, 1953 (which enable a local authority to recover from frontagers the expenses incurred in constructing the sewer).

Sewerage Scheme for the parish of Church Hulme (Holmes Chapel) at an estimated cost of £35,094. The scheme provides for the laying of new trunk sewers to relieve the existing overloaded system and to provide for extensive further development.

Sewerage Scheme for the Red Bull area of the Parish of Church Lawton at an estimated cost of £32,250. The scheme provides for the laying of foul and surface water sewers to provide drainage facilities for existing properties and certain infilling and new development in the area. The sewage will be conveyed to a new pumping station at Lawton Bridge, and thence by rising main to the new Red Bull Disposal Works of the Kids Grove Urban District Council. This scheme was approved subject to the Rural District Council being requested to consider increasing the gradients of certain lengths of the proposed 6" foul and 6" surface water sewers to ensure that such lengths will be self-cleansing.

Knutsford Urban District Council

Sewerage Scheme for the Beggarman's Lane Development Area, Knutsford, at an estimated cost of £31,900. The scheme provides for the laying of both foul and surface water sewers to serve the development area. The foul sewers will drain to a pumping station from which the sewage will be pumped into an existing sewer on Toft Road. The surface water sewer will discharge into the surface water sewer in Bexton Road provided under a previous scheme (see 1960 Annual Report).

Chester Rural District Council

Sewerage and sewage disposal scheme for the parish of Elton at an estimated cost of £57,500. The scheme provides for the laying of sewers in the village and the adjacent area of Elton Green, to discharge to a new disposal works to be constructed on the north-east side of the village. Consideration of this scheme was deferred pending receipt of further information which the Rural District Council had been asked to supply.

Hale Urban District Council

Further extension of existing disposal works at an estimated cost of £20,000. The scheme provides for the construction of sludge drying beds at the disposal works to replace and extend existing beds which have deteriorated.

Wirral Urban District Council

Provision of relief sewer and storm water overflow chamber in the Irby/Thurstaston area and a storm water overflow chamber at the head of the existing Arrowe Brook trunk sewer at Irby at an estimated cost

of £18,260. These proposals are intended to eliminate flooding by sewage in the area and pollution of the Arrowe Brook. Consideration of this scheme was deferred pending clarification of sewerage matters in adjacent areas.

Provision of surface water sewer at Heswall Hills at an estimated cost of £13,500. At the present time there is no satisfactory system of surface water drainage in the area, and projected development makes the proposal necessary. The scheme provides for the laying of 747 yards of 21" and 470 yards of 24" surface water sewer from a point in Brimstage Road to a watercourse near Whitehouse Lane, Heswall Hills.

Sewerage and sewage disposal scheme for Gayton at an estimated cost of £90,000. The scheme provides for the duplication of the main existing sewers at Gayton to relieve the present system, which is overloaded, and to provide for further development, and the replacement of the existing disposal works. In this case, the Wirral Urban District Council were informed that the need for the scheme was acknowledged and that the proposals for sewerage, as submitted, were such as could be approved, but that, having regard to the proposed point of discharge of effluent into the Dee Estuary and to the requirements of the River Board as to the standard of effluent discharged, the County Council were of the opinion that the Urban District Council should give consideration to the provision of full treatment works instead of partial treatment works as proposed.

Provision of new main sewers in Pensby at an estimated cost of £22,120. The scheme provides for the laying of new foul and surface water sewers to serve a new development area, the existing sewers in adjacent areas being of insufficient capacity to take the additional flow from the proposed new development.

Ellesmere Port Municipal Borough Council

The Council submitted details of their proposals for a comprehensive scheme of sewerage and sewage disposal for the areas at an estimated cost of £1,246,000, and of their proposed Riveacre Valley Relief Sewer Scheme at an estimated cost of £89,000. (See also the Annual Report for 1960).

Bredbury and Romiley Urban District Council

Surface water drainage scheme at Bredbury Green at an estimated cost of £19,000. The scheme provides for the laying of 727 yards of surface water sewer from 15" to 27" in diameter in the area lying to the south and west of Bredbury Green, draining to an existing watercourse near Otterspool Road, Romiley. This will permit of the drainage on the separate system of housing development to be carried out in the area, including overspill housing.

Ministry of Housing and Local Government Inquiries and Investigations

During the year, Inspectors of the Ministry held Inquiries or Investigations into the following schemes, and on each occasion the Department was represented by the County Health Inspector.

- January 5th—Northwich R.D.C.—Acton Sewerage and Sewage Disposal Scheme.
- January 13th—Bucklow R.D.C.—Mobberley Sewerage and Sewage Disposal Scheme.
- February 23rd—Macclesfield M.B.C.—Extensions to Sewage Disposal Works.
- May 3rd—Nantwich R.D.C.—Wybunbury and Walgherton Sewerage and Sewage Disposal Scheme.
- May 4th—Nantwich R.D.C.—Audlem Sewerage and Sewage Disposal Scheme.
- May 30th—Marple U.D.C.—Reconstruction of Low Marple Sewage Disposal Works.
- June 20th—Congleton R.D.C.—Holmes Chapel Sewerage and Sewage Disposal Scheme.
- September 6th—Bucklow R.D.C.—Extension of Partington Sewage Disposal Works.

LIAISON WITH COUNTY PLANNING DEPARTMENT

An arrangement is in operation whereby applications for approval of development under Planning Legislation where the proposals have a public health significance and upon which the Planning Officer would like a public health opinion at County level, are submitted to the Department for consideration and comment.

During the year 1961, sixteen such applications were dealt with as follows, and in each case full consideration of all aspects took place, and the Department's opinion given for the assistance of the Planning Officer:—

Improvements and extensions to schools, including	
Sanitary Accommodation and Sewage Disposal Plant	2
Improvements, alterations and extensions, so as to comply with the Slaughterhouse Act, 1958, and Regulations made thereunder	2
Tipping areas for household refuse	4
Extension to existing Tipping Area for domestic refuse	1
Sites for new Sewage Disposal Works	3
Site for new Sewage Disposal Works and Pumping Station	1
Sewerage Scheme and site for Pumping Station	1
Extension to Sewage and Trade Waste Treatment and Disposal Works	1
Petrol Filling Station in close proximity to Clinic Centre	1

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LIAISON WITH COUNTY SURVEYOR'S DEPARTMENT

For some years the County Council have allowed the discharge of sewage effluents into their road surface water drains subject to a number of conditions and safeguards.

All applications received by the County Surveyor for permission to make such connections are referred to this Department as well as to the County District Councils (in the case of private development).

The Department considers each case on its merits, particularly with regard to the type of treatment to be installed and the ultimate outfall of the surface water drain, and also as to whether any other means of disposal are available.

The County Surveyor is then advised as to whether it is considered that the connection should be allowed. Advice has also been given on a number of occasions regarding the type of treatment plant which should be provided to deal with particular circumstances, sizes of units, etc.

If the connection is allowed, a tripartite agreement is entered into to protect the County Council's position, and the District Council is responsible for seeing that the means of treatment provided are properly constructed, and for making inspections at six-monthly intervals to ensure satisfactory maintenance and efficient working.

During 1961, a total of twelve applications were dealt with.

ATMOSPHERIC POLLUTION

The domestic chimney is now the most serious single source of air pollution in Great Britain. It is responsible for two-thirds of the total smoke now being emitted, and, of course, discharges the smoke at low levels.

This problem can be solved, and is being solved, by the creation of smoke control areas, but at a much slower pace than was envisaged by the Beaver Committee on Air Pollution in its Report of 1954.

Even so, the criticisms and difficulties that have been encountered in developing the smoke control area programme are small in comparison with the success that this has already attained, as shown by its effectiveness in what is now approaching a million houses throughout the country.

The position at the end of 1961 for the "black areas" in England and Wales, was as follows:—

	<i>Premises</i>	<i>Acres</i>
Smoke Control Areas in operation	561,692	100,347
Orders confirmed or submitted	368,151	57,873
	<hr/>	<hr/>
Totals	929,843	158,220
	<hr/>	<hr/>

So far as Cheshire is concerned, all the authorities in the so-called "black areas" have formulated programmes. Some of the programmes are much more ambitious than others.

A number of authorities outside the "black areas" are also carrying out work in connection with the formation of smoke control areas.

The following table sets out the position at the end of 1961.

It will be seen that much useful work is being done, and several authorities are already making considerable progress towards solving the problem in their areas.

Smoke Control Areas—Cheshire Local Authorities—Position at 31st December, 1961

Local Authority	Total Acreage of Authority	Total No. of premises	Orders in operation at 31/12/61			Orders confirmed but not yet operative			Orders declared and awaiting Confirmation		
			Acreage	Domestic premises	Total premises	Acreage	Domestic premises	Total premises	Acreage	Domestic premises	Total premises
In "Black Areas"											
Altrincham	3,519	15,062	33.5	395	397	10	110	173	NIL	NIL	NIL
Dukinfield M.B.	1,725	7,375	41.06	160	160	12.42	4	5	NIL	NIL	NIL
Hyde M.B.	4,170	12,680	114	642	653	NIL	NIL	NIL	736	1,422	1,489
Sale M.B.	3,628	17,737	868	2,042	2,056	440	3,385	3,408	NIL	NIL	NIL
Stalybridge M.B.	3,190	9,510	24.5	191	191	230.75	820	843	NIL	NIL	NIL
Bredbury and Romiley U.D.	4,295	7,675	NIL	NIL	NIL	449	1,341	1,408	NIL	NIL	NIL
Cheadle and Gatley U.D.	5,299	13,599	807	2,025	2,044	685.4	1,981	2,030	NIL	NIL	NIL
Bebington M.B.	12,244	17,000	15	111	112	58	289	299	538	3,154	3189
Ellesmere Port M.B.	9,144	13,259	680	3,330	3,347	NIL	NIL	NIL	NIL	NIL	NIL
Runcorn U.D.	3,116	8,500	327	1,381	1,388	NIL	NIL	NIL	NIL	NIL	NIL
Others											
Crewe M.B.	4,386	19,736	NIL	NIL	NIL	270	1,070	1,085	NIL	NIL	NIL
Hazel Grove and Bramhall U.D.	5,990	10,658	NIL	NIL	NIL	272.2	1,011	1,024	NIL	NIL	NIL
Marple U.D.	7,130	5,665*	NIL	NIL	NIL	69	655	669	NIL	NIL	NIL
Wilmslow U.D.	7,694	7,605*	51.47	386	388	NIL	NIL	NIL	82	817	825
Winsford U.D.	7,094	4,130*	112	1,100	1,100	NIL	NIL	NIL	8.21	82	82
		*Dwellings									

Appendix of Statistics

1961

TABLE A

Deaths by Causes.—Sex—
Each County District.

TABLE B

Deaths by Causes.—Sex; Age—
Urban Districts, Rural Districts,

TABLE C

Statistical Summary of cnumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.



TABLE A (Urban i).

CAUSES OF DEATH.			Alderley Edge U.D.		Alsager U.D.		Altrincham M.B.		Bebington M.B.		Bollington U.D.		Bowdon U.D.		Bredbury and Romley U.D.		Cheadle and Gatley U.D.		Congleton M.B.		Crewe M.B.		Dukinfield M.B.		Ellesmere Port M.B.		Hale U.D.		Hazel Grove and Bramhall U.D.		Hoylake U.D.		Hyde M.B.	
			M. 28	F. 24	M. 37	F. 27	M. 253	F. 225	M. 327	F. 312	M. 35	F. 41	M. 24	F. 42	M. 126	F. 113	M. 211	F. 244	M. 109	F. 105	M. 382	F. 320	M. 116	F. 129	M. 193	F. 169	M. 85	F. 95	M. 145	F. 148	M. 204	F. 259	M. 234	F. 235
1	Tuberculosis, Respiratory	—	—	—	1	—	—	—	—	1	—	—	—	—	—	—	2	—	—	—	2	1	3	1	—	—	—	—	1	1	4	1	2	—
2	Tuberculosis, Other	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
3	Syphilitic Disease	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	3	—	—	—	—	1	—	—	—	—	—	2	—	1
4	Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Acute Poliomyelitis	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	Measles	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	Other Infective and Parasitic Diseases	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
10	Malignant Neoplasm, Stomach	—	—	1	—	6	6	8	7	3	—	—	—	—	1	2	4	3	1	2	14	6	6	2	10	2	3	1	5	2	2	4	4	5
11	Malignant Neoplasm, Lung	—	—	—	—	23	4	16	2	—	—	—	1	10	1	13	4	8	—	22	3	8	—	18	2	6	1	6	1	11	3	15	2	
12	Malignant Neoplasm, Breast	—	—	—	1	1	12	—	12	—	3	—	1	—	8	—	9	—	2	—	11	—	1	1	4	—	7	—	4	—	11	1	3	
13	Malignant Neoplasm, Uterus	—	—	—	—	—	11	—	7	—	—	—	—	—	1	—	—	—	—	—	5	—	—	—	5	—	—	—	1	—	2	—	7	
14	Other Malignant and Lymphatic Neoplasms	3	1	3	2	19	14	28	29	1	3	1	4	6	11	21	14	8	7	31	29	10	9	10	13	6	8	17	13	17	19	16	21	
15	Leukaemia, Aleukaemia	—	—	—	—	—	1	2	4	—	—	—	—	—	—	3	—	—	—	1	—	—	—	—	1	1	1	—	2	—	—	2	—	—
16	Diabetes	—	—	1	—	—	2	4	2	—	—	—	—	—	1	2	—	—	—	7	4	—	3	—	2	—	2	—	2	—	1	2	1	1
17	Vascular Lesions of Nervous System	7	6	5	4	32	39	44	56	3	13	1	5	12	21	22	49	21	24	43	61	7	24	21	24	10	20	23	27	20	50	31	50	
18	Coronary Disease, Angina	9	2	10	3	50	18	99	54	9	3	8	4	34	13	53	40	29	21	75	43	19	16	47	26	18	14	39	25	54	52	44	31	
19	Hypertension with Heart Disease	—	1	2	—	4	11	2	8	—	—	—	1	3	3	2	3	—	1	4	5	5	2	6	4	2	3	4	2	3	3	5	3	
20	Other Heart Disease	3	2	1	2	29	44	21	33	2	7	—	9	11	16	21	40	8	30	35	43	10	26	9	22	12	14	9	12	13	28	21	26	
21	Other Circulatory Disease	—	5	2	4	10	8	5	15	2	—	2	3	11	6	12	25	2	6	14	13	5	13	4	10	4	3	2	8	12	21	14	9	
22	Influenza	2	—	—	1	3	1	5	5	1	2	2	1	1	1	1	2	—	1	9	4	4	2	1	2	1	3	2	4	1	5	2	4	
23	Pneumonia	1	1	—	2	12	13	25	34	5	2	1	2	6	1	7	7	3	3	16	17	5	10	10	19	2	4	9	9	15	21	10	12	
24	Bronchitis	2	1	4	2	21	5	22	4	3	1	4	2	12	7	17	7	7	—	36	12	19	1	20	4	6	3	5	3	10	6	16	11	
25	Other Diseases of Respiratory System	1	—	—	—	2	3	—	1	1	—	—	—	—	2	—	3	1	2	—	2	1	3	2	3	1	2	1	2	—	2	3	4	
26	Ulcer of Stomach and Duodenum	—	—	1	—	2	1	2	4	—	—	1	—	—	2	—	1	1	1	1	6	2	1	—	1	1	—	1	1	—	2	2	1	3
27	Gastritis, Enteritis and Diarrhoea	—	—	—	—	—	1	2	1	—	—	—	—	—	2	1	1	—	—	1	2	—	—	—	2	—	—	1	—	1	1	1	—	
28	Nephritis and Nephrosis	—	—	—	1	—	3	3	—	—	1	—	—	—	—	—	2	1	1	—	1	2	1	—	1	2	1	—	2	1	1	1	3	
29	Hyperplasia of Prostate	—	—	—	1	—	1	—	1	—	1	—	—	—	3	—	—	—	1	—	3	—	1	—	2	—	—	—	1	—	2	—	4	—
30	Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	Congenital Malformations	—	—	—	—	3	2	3	—	—	—	—	1	1	—	3	2	—	—	2	3	3	1	1	2	1	—	1	3	4	2	2	3	
32	Other Defined and Ill-defined Diseases	—	5	3	5	19	19	17	25	3	4	1	7	7	14	13	29	8	4	39	45	10	9	13	16	5	8	8	22	18	15	20	30	
33	Motor Vehicle Accidents	—	—	—	—	8	1	7	1	—	1	2	—	—	1	4	1	1	—	4	3	1	1	6	3	3	1	4	1	3	2	5	2	
34	All Other Accidents	—	—	3	1	3	—	7	1	—	—	—	—	—	2	3	2	2	3	2	10	3	2	1	4	—	1	—	1	2	4	4	4	7
35	Suicide	—	—	—	—	2	9	2	2	—	2	—	1	2	1	1	3	4	1	2	1	2	4	4	—	—	—	3	3	3	—	7	1	—
36	Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1	—	—	—	1	1	—	—	1	—	—	—	1	—
LIVE BIRTHS—Total			27	21	73	79	359	333	487	420	41	54	37	29	189	174	496	473	138	126	473	446	141	138	527	528	122	111	269	264	254	249	251	249
Legitimate			25	20	73	78	344	321	472	410	39	53	36	28	183	167	488	465	134	123	446	417	138	135	508	507	119	109	265	253	247	245	243	232
Illegitimate			2	1	—	1	15	12	15	10	2	1	1	1	6	7	8	8	4	3	27	29	3	3	19	21	3	2	4	11	7	4	8	17
STILLBIRTHS—Total			—	1	3	—	6	7	9	5	—	1	2	2	4	—	9	8	2	5	14	7	2	2	17	7	1	1	4	1	6	2	4	7
Legitimate			—	1	3	—	6	7	9	5	—	1	2	2	4	—	9	8	2	3	14	7	2	1	16	6	1	1	3	1	6	2	4	7
Illegitimate			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	1	1	1	—	1	—	—	—	—	—	—
Deaths of Infants (under one year of age)	Total	—	—	2	—	11	5	10	6	1	2	—	3	6	3	4	11	2	1	8	9	2	1	8	7	1	—	4	6	7	6	3	8	
	Legitimate	—	—	2	—	11	5	10	6	1	2	—	2	5	3	4	9	2	1	7	9	2	1	8	7	1	—	3	6	7	6	3	7	
	Illegitimate	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	2	—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	1	
Deaths of Infants (under 4 weeks of age)	Total	—	—	1	—	9	3	8	4	—	2	—	1	5	2	3	7	1	—	6	6	1	—	7	6	1	—	4	6	6	5	—	5	
	Legitimate	—	—	1	—	9	3	8	4	—	2	—	1	4	2	3	7	1	—	6	6	1	—	7	6	1	—	3	6	6	5	—	4	
	Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	
Deaths of Infants (under 1 week of age)	Total	—	—	1	—	6	2	6	4	—	2	—	1	5	2	2	6	1	—	4	5	1	—	7	6	1	—	2	5	5	5	—	5	
	Legitimate	—	—	1	—	6	2	6	4	—	2	—	1	4	2	2	6	1	—	4	5	1	—	7	6	1	—	1	5	5	5	—	4	
	Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	

	Total	Legitimate	Illegitimate
Deaths of Infants (under 1 week of age)	6	1	—
Deaths of Infants (under 4 weeks of age)	9	1	—
Deaths of Infants under one year of age)	11	2	—
STILLBIRTHS—Total	6	3	—
Legitimate	6	—	—
Illegitimate	—	—	—
LIVE BIRTHS—Total	27	21	6
Legitimate	25	20	5
Illegitimate	2	1	1
Other Diseases of Respiratory System	1	—	—
Ulcer of Stomach and Duodenum	—	1	—
Gastritis, Enteritis and Diarrhoea	—	—	—
Nephritis and Nephrosis	—	—	—
Hyperplasia of Prostate	—	—	—
Pregnancy, Childbirth, Abortion	—	—	—
Congenital Malformations	—	—	—
Other Defined and Ill- defined Diseases	—	3	5
Motor Vehicle Accidents	—	—	—
All Other Accidents—	—	3	—
Suicide	—	—	—
Homicide & Operations of War	—	—	—

TABLE A—(Urban ii).

CAUSES OF DEATH.		Knutsford U.D.		Longden- dale U.D.		Lymm U.D.		Maccles- field M.B.		Marple U.D.		Middle- wich U.D.		Nantwich U.D.		Neston U.D.		Northwich U.D.		Runcorn U.D.		Sale M.B.		Sandbach U.D.		Staly- bridge M.B.		Wilmslow U.D.		Winsford U.D.		Wirral U.D.		
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.			
ALL CAUSES — —		88	115	36	37	53	47	268	318	113	94	46	39	81	70	57	64	119	115	164	117	319	295	63	59	169	166	130	125	67	76	140	148	
1	Tuberculosis, Respiratory	—	1	—	—	—	—	1	—	—	—	—	—	1	—	—	—	1	—	1	—	1	—	—	—	2	1	—	2	—	—	1	1	
2	Tuberculosis, Other	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
3	Syphilitic Disease	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
4	Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—		
5	Whooping Cough	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
6	Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
7	Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
8	Measles	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
9	Other Infective and Parasitic Diseases	—	—	—	1	—	—	1	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1	—	—	—	—	—	—	—	—	—		
10	Malignant Neoplasm, Stomach	2	1	2	1	2	1	11	9	6	2	1	1	4	4	1	—	3	4	5	2	—	2	—	1	5	5	9	2	3	1	7	4	
11	Malignant Neoplasm, Lung, Bronchus	6	1	1	1	6	1	14	3	3	1	6	—	3	1	5	2	6	1	16	3	—	1	1	1	11	4	9	1	1	15	2		
12	Malignant Neoplasm, Breast	—	1	—	1	—	1	—	10	—	3	—	1	—	1	—	2	—	3	—	4	—	10	—	3	—	6	—	4	—	3	—	5	
13	Malignant Neoplasm, Uterus	—	1	—	—	—	2	—	5	—	1	—	1	—	—	—	—	—	3	—	4	—	4	—	—	—	2	—	2	—	3	—	3	
14	Other Malignant and Lymphatic Neoplasms	5	3	4	2	7	3	18	13	8	9	5	6	1	5	12	2	7	8	12	8	27	26	1	7	13	9	10	15	7	5	8	6	
15	Leukaemia, Aleukaemia	—	—	1	—	—	—	1	2	1	—	—	—	1	—	—	—	1	—	—	1	—	2	—	—	—	—	1	—	—	—	1	—	
16	Diabetes	—	1	—	—	—	—	1	—	1	1	—	—	1	—	—	1	—	2	—	—	3	1	2	1	1	1	—	1	—	2	—	—	
17	Vascular Lesions of Nervous System	14	34	4	7	5	15	31	66	14	17	5	6	8	10	4	12	16	28	18	20	35	52	3	9	28	30	29	31	6	12	18	28	
18	Coronary Disease, Angina	12	13	12	3	14	9	48	38	26	19	11	5	16	13	13	14	24	13	34	21	73	38	12	8	41	14	24	12	14	7	25	21	
19	Hypertension with Heart Disease	—	1	1	—	1	1	4	15	3	3	—	1	1	5	—	3	2	2	6	4	4	6	—	—	—	4	1	1	3	7	12		
20	Other Heart Disease	15	26	3	10	2	5	48	70	8	8	4	9	8	5	2	6	22	20	16	13	37	41	14	11	19	39	10	15	10	12	16	28	
21	Other Circulatory Disease	3	4	1	3	4	2	14	16	5	6	1	1	3	7	6	8	2	6	6	8	16	33	1	1	3	9	8	13	2	3	—	4	
22	Influenza	1	1	—	—	1	—	6	7	2	1	2	1	1	1	—	3	5	1	2	2	6	4	1	2	3	3	1	—	—	3	1	3	
23	Pneumonia	4	3	1	1	1	1	18	19	6	4	—	1	2	4	2	3	3	4	4	6	8	12	4	—	1	7	2	1	5	—	10	13	
24	Bronchitis	11	1	1	3	1	1	13	10	8	—	2	1	9	3	2	1	10	2	17	—	21	8	5	1	15	8	4	1	3	3	9	1	
25	Other Diseases of Respiratory System	—	—	—	1	—	—	3	2	—	2	—	—	1	1	1	—	—	—	1	—	1	—	1	—	—	3	2	1	2	1	1		
26	Ulcer of Stomach and Duodenum	1	—	—	—	—	—	2	2	—	1	—	—	2	—	2	—	1	1	—	—	6	5	—	—	3	1	—	—	—	—	—		
27	Gastritis, Enteritis and Diarrhoea	—	—	—	—	—	—	2	—	3	—	—	—	—	—	1	1	—	2	1	2	4	—	—	1	1	—	1	—	—	1	1		
28	Nephritis and Nephrosis	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	1	—	1	—	—	—	—	—		
29	Hyperplasia of Prostate	—	—	—	2	—	1	—	1	—	—	—	2	—	—	—	—	—	—	1	1	1	—	—	1	—	1	—	—	1	3	1		
30	Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—	—	3	—	1	—	—	—	1	—		
31	Congenital Malformations	3	1	—	—	2	—	3	2	2	1	1	1	—	—	—	—	—	1	1	—	5	4	2	—	1	1	1	3	—	—	—	—	
32	Other Defined and Ill-defined Diseases	6	21	3	3	1	4	14	20	10	12	4	2	10	9	6	6	9	13	9	10	22	27	13	10	10	14	9	13	10	14	9	8	
33	Motor Vehicle Accidents	2	—	—	—	2	—	6	2	2	2	1	1	1	—	1	—	2	1	3	—	7	5	2	1	1	1	3	—	—	—	4	2	
34	All Other Accidents	2	1	1	—	2	1	3	4	1	1	2	1	3	1	—	—	2	2	3	6	8	4	—	2	4	3	2	3	3	—	2	2	
35	Suicide	—	—	—	—	—	—	1	3	3	—	1	—	3	—	—	—	1	—	2	2	5	3	1	1	3	3	2	2	—	1	1	—	
36	Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LIVE BIRTHS—Total		84	92	42	38	77	70	317	279	144	137	53	55	102	80	127	97	143	147	254	236	518	479	81	58	184	194	207	218	113	98	218	165	
Legitimate		82	88	42	38	74	68	293	257	143	130	51	53	94	75	122	93	138	136	245	230	503	464	75	57	174	184	203	202	110	95	211	161	
Illegitimate		2	4	—	3	2	24	22	1	7	2	2	2	8	5	5	4	5	11	9	6	15	15	6	1	10	10	4	16	3	3	7	4	
STILLBIRTHS—Total		1	2	1	—	2	1	6	12	—	2	2	—	4	3	2	3	3	4	2	7	9	10	4	6	4	1	4	3	6	7	5	2	
Legitimate		1	2	1	—	1	1	4	10	—	2	2	—	4	3	2	3	3	4	2	6	9	10	4	6	4	1	4	3	6	7	5	2	
Illegitimate		—	—	—	—	1	—	2	2	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	
Deaths of Infants (under one year of age)		Total	4	2	1	—	2	1	1	4	4	2	3	2	2	1	1	3	3	2	5	3	11	10	4	—	3	1	3	4	3	2	5	—
		Legitimate	4	2	1	—	2	1	1	4	4	2	3	2	1	1	1	3	2	2	5	3	9	10	4	—	3	1	2	4	3	2	5	—
Deaths of Infants (Under 4 weeks of age)		Total	3	1	1	—	2	1	1	3	3	2	2	2	—	1	3	3	—	4	3	9	6	4	—	3	1	3	3	2	2	4	—	
		Legitimate	3	1	1	—	2	1	1	3	3	2	2	2	1	—	1	3	2	—	4	3	7	6	4	—	3	1	2	3	2	2	4	—
Deaths of Infants (under 1 week of age)		Total	1	1	1	—	1	1	1	3	1	2	1	2	1	—	1	3	3	—	4	3	9	6	2	—	3	1	3	1	1	2	3	—
		Legitimate	1	1	1	—	1	1	1	3	1	2	1	2	1	—	1	3	2	—	4	3	7	6	2	—	3	1	2	1	1	2	3	—
Illegitimate		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

[illegible]

TABLE A—(Rural).

CAUSES OF DEATH.	Bucklow R.D.		Chester R.D.		Congleton R.D.		Disley R.D.		Macclesfield R.D.		Nantwich R.D.		Northwich R.D.		Runcorn R.D.		Tarvin R.D.		Tintwistle R.D.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES — — —	62	77	190	210	124	111	19	23	129	123	184	127	232	193	247	219	78	94	5	9
1 Tuberculosis, Respiratory — —	1	—	3	3	—	—	—	—	2	—	—	—	—	—	—	1	—	1	—	—
2 Tuberculosis, Other — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3 Syphilitic Disease — — —	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4 Diphtheria — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—
5 Whooping Cough — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6 Meningococcal Infections — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7 Acute Poliomyelitis — — —	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
8 Measles — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 Other Infective and Parasitic Diseases — — —	—	—	1	1	—	1	—	—	1	1	—	—	—	1	1	—	—	2	—	—
10 Malignant Neoplasm, Stomach — — —	2	2	4	1	5	—	—	—	6	2	6	1	6	10	7	6	3	6	—	—
11 Malignant Neoplasm, Lung Bronchus — — —	4	—	13	2	3	—	1	—	10	1	8	1	15	2	9	3	4	1	—	—
12 Malignant Neoplasm, Breast — — —	—	4	—	5	—	5	—	2	—	10	—	5	—	6	—	7	—	4	—	—
13 Malignant Neoplasm, Uterus — — —	—	—	—	—	—	3	—	1	—	3	—	2	—	4	—	1	—	—	—	—
14 Other Malignant and Lymphatic Neoplasms — —	4	5	16	10	6	11	1	3	11	7	19	10	18	21	16	23	7	5	1	—
15 Leukaemia, Aleukaemia — —	—	—	1	1	2	—	—	—	1	—	—	—	3	1	1	1	—	1	—	—
16 Diabetes — — —	1	—	—	1	1	2	—	—	—	2	2	2	2	4	2	4	—	1	—	1
17 Vascular Lesions of Nervous System — — —	6	26	13	62	18	11	5	7	11	26	31	28	19	37	32	31	8	17	1	2
18 Coronary Disease, Angina — —	11	5	35	15	16	10	4	5	28	19	39	22	51	27	63	37	16	15	2	3
19 Hypertension with Heart Disease — — —	1	—	6	8	—	—	—	—	1	3	3	2	2	4	1	10	2	3	—	—
20 Other Heart Disease — — —	8	4	15	37	12	7	1	1	11	18	17	16	32	29	24	27	12	13	—	2
21 Other Circulatory Disease — —	3	4	12	13	—	8	2	—	10	4	4	8	8	6	17	11	1	7	—	—
22 Influenza — — —	2	—	3	4	2	—	1	—	1	1	3	1	3	3	2	2	2	3	1	—
23 Pneumonia — — —	4	5	14	10	1	4	—	1	7	3	7	7	7	4	8	18	4	4	—	—
24 Bronchitis — — —	3	4	11	3	8	1	1	1	6	4	14	2	15	5	12	6	4	—	—	—
25 Other Diseases of Respiratory System — —	1	—	4	1	1	1	—	—	4	—	2	—	3	3	2	3	—	1	—	—
26 Ulcer of Stomach and Duodenum — — —	1	—	2	1	—	—	—	1	—	1	3	—	2	1	5	1	—	—	—	—
27 Gastritis, Enteritis and Diarrhoea — — —	1	2	—	1	—	—	1	—	1	—	2	1	2	1	1	—	—	—	—	—
28 Nephritis and Nephrosis — —	—	—	—	1	2	2	—	—	2	—	1	2	1	2	5	1	—	—	—	—
29 Hyperplasia of Prostate — —	—	—	7	—	—	—	—	—	3	—	2	—	1	—	8	—	1	—	—	—
30 Pregnancy, Childbirth, Abortion — — —	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—
31 Congenital Malformations — —	1	2	1	3	—	—	—	—	—	2	2	2	1	1	1	3	—	1	—	—
32 Other Defined and Ill-defined Diseases — —	5	14	15	19	44	43	1	1	6	11	8	12	22	12	15	16	7	5	—	1
33 Motor Vehicle Accidents — —	2	—	8	1	2	2	—	—	4	3	4	2	9	1	6	1	3	2	—	—
34 All Other Accidents — — —	—	—	5	6	—	—	—	—	3	2	7	1	6	5	2	5	2	1	—	—
35 Suicide — — —	1	—	1	—	1	—	1	—	—	—	—	—	2	1	7	1	1	—	—	—
36 Homicide & Operations of War — —	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
LIVE BIRTHS—Total — — —	174	169	254	222	103	88	23	17	183	179	215	169	357	304	330	325	115	103	13	6
Legitimate — — —	160	162	246	219	101	85	23	15	181	176	210	165	343	292	317	314	114	98	13	6
Illegitimate — — —	14	7	8	3	2	3	—	2	2	3	5	4	14	12	13	11	1	5	—	—
STILLBIRTHS—Total — — —	3	3	6	5	2	5	—	1	4	2	3	1	7	6	8	5	3	2	—	—
Legitimate — — —	3	3	6	5	2	3	—	—	4	2	3	1	7	6	6	5	3	2	—	—
Illegitimate — — —	—	—	—	—	—	2	—	1	—	—	—	—	—	—	2	—	—	—	—	—
Deaths of Infants (under one year) { Total — — —	1	4	4	6	1	—	—	—	3	2	3	3	11	1	3	5	3	2	—	1
{ Legitimate — — —	1	4	3	6	1	—	—	—	2	2	3	3	10	—	3	5	3	2	—	1
{ Illegitimate — — —	—	—	1	—	—	—	—	—	1	—	—	—	1	1	—	—	—	—	—	—
Deaths of Infants (under 4 weeks of age) { Total — — —	—	2	3	4	1	—	—	—	2	2	1	1	6	—	2	4	3	2	—	1
{ Legitimate — — —	—	2	2	4	1	—	—	—	2	2	1	1	5	—	2	4	3	2	—	1
{ Illegitimate — — —	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—
Deaths of Infants (under 1 week of age) { Total — — —	—	2	2	4	1	—	—	—	1	2	—	1	5	—	1	3	3	2	—	1
{ Legitimate — — —	—	2	1	4	1	—	—	—	1	2	—	1	4	—	1	3	3	2	—	1
{ Illegitimate — — —	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—

TABLE B

CAUSES OF DEATH.	Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.									
		All	0—	1—	5—	15—	25—	45—	65—	75—	All	0—	1—	5—	15—	25—	45—	65—	75—		
		Ages									Ages										
ALL CAUSES — —	M F	4423 4372	124 105	26 13	12 3	45 18	166 116	1286 738	1250 1088	1514 2291	1270 1186	29 24	5 7	5 3	24 9	48 30	313 189	351 278	495 646		
1 Tuberculosis, Respiratory	M F	23 10	— —	— —	— —	— —	2 3	11 4	8 2	2 1	6 5	— —	— —	— —	— —	1 —	2 2	3 3	— —		
2 Tuberculosis, Other —	M F	2 1	— —	— —	— —	1 —	— —	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —		
3 Syphilitic Disease —	M F	7 5	— —	— —	— —	— —	— —	1 2	3 —	3 3	2 —	— —	— —	— —	— —	— —	— —	1 1	1 —		
4 Diphtheria — —	M F	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —		
5 Whooping Cough —	M F	1 —	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —		
6 Meningococcal Infections	M F	— —	— —	— —	— —	— —	— —	— —	— —	— —	1 —	1 —	— —	— —	— —	— —	— —	— —	— —		
7 Acute Poliomyelitis —	M F	1 —	— —	— —	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —		
8 Measles — —	M F	2 —	— —	2 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —		
9 Other Infective and Parasitic Diseases	M F	5 4	2 —	— —	— 1	— —	1 —	1 —	2 —	— —	3 6	— —	— —	1 —	— —	1 —	1 3	2 —	1 —		
10 Malignant Neoplasm, Stomach	M F	136 82	— —	— —	— —	— —	4 —	52 16	52 32	28 33	39 28	— —	— —	— —	— —	— —	13 5	16 12	10 11		
11 Malignant Neoplasm, Lung Bronchus	M F	283 47	— —	— —	— —	1 —	6 1	152 27	87 14	37 5	67 10	— —	— —	— —	— —	2 1	31 4	24 3	10 2		
12 Malignant Neoplasm, Breast	M F	3 147	— —	— —	— —	— —	11 —	2 64	34 —	1 38	48 —	— —	— —	— —	— —	4 —	24 —	8 —	12 —		
13 Malignant Neoplasm, Uterus	M F	— 70	— —	— —	— —	— —	6 —	39 —	16 —	9 —	14 —	— —	— —	— —	— —	1 —	4 —	3 —	6 —		
14 Other Malignant and Lymphatic Neoplasms	M F	342 324	— —	1 —	— —	3 —	22 13	101 107	102 89	113 113	99 95	— —	— —	— —	2 2	7 3	32 36	30 26	28 28		
15 Leukaemia, Aleukaemia	M F	16 14	— —	— 1	3 —	— 2	1 3	7 —	2 —	3 7	8 4	1 —	— —	— —	1 —	— —	2 —	3 1	3 —		
16 Diabetes — —	M F	26 30	— —	— —	— —	— 1	2 —	5 4	11 15	8 8	17 —	— —	— —	— —	— —	1 —	2 3	5 8	3 —		
17 Vascular Lesions of Nervous System	M F	540 850	— 1	— —	1 —	1 —	4 11	105 104	213 —	273 519	144 247	— —	— —	— —	— —	3 —	27 24	47 66	67 157		
18 Coronary Disease, Angina	M F	996 613	— —	— —	— —	1 —	25 3	437 95	295 230	238 285	158 —	— —	— —	— —	— —	— —	7 22	88 51	81 85		
19 Hypertension with Heart Disease	M F	73 110	— —	— —	— —	— —	— —	10 14	30 34	33 62	16 30	30 —	— —	— —	— —	— —	2 —	7 7	7 17		
20 Other Heart Disease—	M F	439 672	— —	— —	— —	1 —	8 12	71 63	107 132	252 465	133 154	— —	— —	— —	1 1	4 3	21 12	33 34	74 104		
21 Other Circulatory Disease	M F	176 273	— —	— —	— —	— —	4 1	21 31	47 57	104 184	57 61	— —	— —	— —	— —	1 6	6 10	9 45	41 9		
22 Influenza — —	M F	67 70	— —	— —	— —	— —	1 —	22 19	19 36	26 30	20 14	— —	— —	— —	1 —	2 —	7 3	3 6	— —		
23 Pneumonia — —	M F	198 236	11 11	4 —	— —	1 —	3 4	34 27	54 45	92 148	52 76	6 1	3 —	— —	— —	3 —	7 6	13 26	35 36		
24 Bronchitis — —	M F	326 113	1 —	1 —	1 —	— —	1 3	86 13	134 31	102 64	74 26	1 —	— —	— —	— —	2 —	25 1	25 8	21 15		
25 Other Diseases of Respiratory System	M F	42 24	— —	1 —	— —	— —	2 —	18 3	13 —	11 17	17 9	— —	1 —	— —	— —	1 —	6 1	4 2	5 4		
26 Ulcer of Stomach and Duodenum	M F	39 29	— —	— —	— —	— —	2 —	13 6	11 15	13 5	13 15	5 —	— —	— —	— —	— —	7 —	4 —	2 4		
27 Gastritis, Enteritis and Diarrhoea	M F	20 19	— —	2 —	— —	— —	2 2	2 3	6 5	8 9	8 5	1 2	2 —	— —	1 —	— —	— —	3 2	1 1		
28 Nephritis and Nephrosis	M F	23 18	— —	— —	— —	1 —	1 3	10 4	6 3	9 7	11 8	— —	— —	— —	— —	1 —	4 2	5 2	1 4		
29 Hyperplasia of Prostate	M F	34 —	— —	— —	— —	— —	— —	2 —	11 —	21 —	22 —	— —	— —	— —	— —	— —	2 —	1 —	19 —		
30 Pregnancy, Childbirth, Abortion	M F	1 —	— —	— —	— —	— —	— —	1 —	— —	— —	— —	2 —	— —	— —	— —	1 —	— —	— —	— —		
31 Congenital Malformations	M F	45 33	25 26	6 2	— —	1 —	4 —	3 2	— —	1 —	1 14	6 9	— 2	— 2	— —	— —	— —	— —	— —		
32 Other Defined and Ill-defined Diseases	M F	329 443	78 63	2 3	4 —	4 5	18 17	60 55	55 73	108 227	123 134	11 12	— —	1 —	4 1	4 4	11 17	18 19	74 80		
33 Motor Vehicle Accidents	M F	85 33	— 2	2 3	1 —	21 5	29 4	19 10	11 3	3 4	38 12	— —	2 —	2 —	10 3	7 2	8 5	2 3	4 3		
34 All Other Accidents—	M F	44 57	6 1	6 2	1 —	6 2	14 2	15 8	13 11	23 31	25 20	2 —	— —	1 —	5 —	4 —	4 2	1 4	8 14		
35 Suicide — —	M F	55 43	— —	— —	— —	1 —	14 5	23 24	13 12	4 2	14 2	— —	— —	— —	— —	2 —	5 2	4 —	3 —		
36 Homicide and Operations of War	M F	4 2	— —	— —	1 —	1 —	— 2	— —	— —	— —	1 —	— —	— —	1 —	— —	— —	— —	— —	— —		

	M	F	Total	M	F	Total	M	F	Total	Disease or Cause
8	—	—	—	—	—	—	—	—	—	Other Heart Disease.
12	439	672	1,111	—	—	—	—	—	—	Other Circulatory Disease.
4	176	273	449	—	—	—	—	—	—	Influenza
1	67	70	137	—	—	—	—	—	—	Pneumonia
3	198	236	434	—	—	—	—	—	—	Bronchitis
1	326	113	439	—	—	—	—	—	—	Other Diseases of Respiratory System
2	42	24	66	—	—	—	—	—	—	Ulcer of Stomach and Duodenum
1	39	29	68	—	—	—	—	—	—	Gastritis, Enteritis and Diarrhoea
2	20	19	39	—	—	—	—	—	—	Nephritis and Nephrosis
3	23	18	41	—	—	—	—	—	—	Hypertrophia of Prostate
—	34	—	34	—	—	—	—	—	—	Pregnancy, Childbirth, Abortion
1	—	1	1	—	—	—	—	—	—	Congenital Malformations
4	45	25	70	—	—	—	—	—	—	Other Defined and Ill-defined Diseases
18	329	443	772	—	—	—	—	—	—	Motor Vehicle Accidents
29	85	33	118	—	—	—	—	—	—	All Other Accidents
14	84	57	141	—	—	—	—	—	—	Suicide
5	55	43	98	—	—	—	—	—	—	Homicide and Operations of War
2	4	2	6	—	—	—	—	—	—	

TABLE C

SANITARY DISTRICTS.	Population at Census, 1961.*	Estimated Population in middle of 1961.	Area in Acres 1961	Illegitimate Births	Still Births.	Total Live Births.	Live Birth rate per 1000 pop.	Deaths	Death-rate per 1000 pop.	Deaths from				Deaths from Principal Zymotic Diseases	Principal Zymotic Diseases Death-rate	No. of Deaths under one year	Deaths under one year to 1000 Births	No. of Deaths under four weeks	Deaths under four weeks to 1000 Births	No. of Deaths under one week	No. of Deaths under one week to 1000 Births	Medical Officers of Health and Divisional Officers at 31/12/61
										Measles	Diphtheria	Whooping Cough	Gastritis, Enteritis and Diarrhoea									
Column Number —	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
MUNICIPAL BOROUGHS																						<i>Vacant</i> Dr. F. S. Melville Dr. L. Rich Dr. D. G. Crawshaw Dr. T. Holme Dr. W. J. Birchall Dr. W. Turner Dr. W. R. Plews Dr. E. H. Gordon Dr. T. Holme
Altrincham —	41104	41030	3477	27	13	692	16.9	478	11.7	2	—	—	1	3	.07	16	23	12	18	8	12	
Bebington —	52202	52060	12234	25	14	907	17.4	639	12.3	—	—	—	3	3	.06	16	18	12	13	10	11	
Congleton —	16802	16930	5587	7	7	264	15.6	214	12.6	—	—	—	—	—	—	3	11	1	4	1	4	
Crewe —	53394	53730	4386	56	21	919	17.1	702	13.1	—	—	—	3	3	.06	17	18	12	13	9	10	
Dukinfield —	17318	17420	1725	6	4	279	16.0	245	14.1	—	—	—	—	—	—	3	11	1	4	1	4	
Ellesmere Port —	44714	44810	9144	40	24	1055	23.5	362	8.1	—	—	—	2	2	.04	15	14	13	12	13	12	
Hyde —	31710	31740	4170	25	11	500	15.8	469	14.8	—	—	—	1	1	.03	11	22	5	10	5	10	
Macclesfield —	37578	37380	4787	46	18	596	15.9	586	15.7	—	—	—	2	2	.05	5	8	4	7	4	7	
Sale —	51317	51460	3629	30	19	997	19.4	614	11.9	—	—	—	6	6	.12	21	21	15	15	15	15	
Stalybridge —	21940	22190	3190	20	5	378	17.0	335	15.1	—	—	—	2	2	.09	4	11	4	11	4	11	
Total Municipal Boroughs	368079	368750	43185	282	136	6587	17.9	4644	12.6	2	—	—	20	22	.06	111	17	79	12	70	11	
URBAN DISTRICTS																						Dr. H. M. Thomas Dr. L. Rich Dr. W. R. Plews <i>Vacant</i> Dr. T. W. Brindle Dr. H. M. Thomas <i>Vacant</i> Dr. T. W. Brindle Dr. J. Hatton <i>Vacant</i> Dr. W. Turner Dr. E. H. Gordon Dr. T. W. Brindle Dr. W. S. Slater Dr. R. K. Hay Dr. J. Hatton Dr. W. S. Slater Dr. J. L. Patterson Dr. L. Rich Dr. H. M. Thomas Dr. W. S. Slater Dr. J. Hatton
Alderley Edge —	3618	3620	702	3	1	48	13.3	52	14.4	—	—	—	—	—	—	—	—	—	—	—	—	
Alsager —	7800	7860	2241	1	3	152	19.3	64	8.1	—	—	—	—	—	—	2	13	1	7	1	7	
Bollington —	5642	5640	1442	3	1	95	16.8	76	13.5	—	—	—	—	—	—	3	32	2	21	2	21	
Bowdon —	4478	4380	1090	2	4	66	15.1	66	15.1	—	—	—	—	—	—	3	45	1	15	1	15	
Bredbury & Romiley —	21613	21870	4290	13	4	363	16.6	239	10.9	—	—	—	2	2	.09	9	25	7	19	7	19	
Cheadle & Gatley —	45599	45490	5299	16	17	969	21.3	455	10.0	—	—	—	2	2	.04	15	15	10	10	8	8	
Hale —	14800	14690	2264	5	2	233	15.9	180	12.3	—	—	—	—	—	—	1	4	1	4	1	4	
Hazel Grove and Bramhall —	29910	30090	5990	15	5	533	17.7	293	9.7	—	—	—	1	1	.03	10	19	10	19	7	13	
Hoylake —	32268	32000	5996	11	8	503	15.7	463	14.5	—	—	—	2	2	.06	13	26	11	22	10	20	
Knutsford —	9389	9460	2485	6	3	176	18.6	203	21.5	—	—	1	—	1	.11	6	34	4	23	2	11	
Longdendale —	4639	4650	3545	—	1	80	17.2	73	15.7	—	—	—	—	—	—	1	13	1	13	1	13	
Lymm —	7330	7380	4241	5	3	147	19.9	100	13.6	—	—	—	—	—	—	3	20	3	20	2	14	
Marple —	16278	16910	7130	8	2	281	16.6	207	12.2	—	—	—	3	3	.18	6	21	5	18	3	11	
Middlewich —	6833	6940	1971	4	2	108	15.6	85	12.2	—	—	—	—	—	—	5	46	4	37	3	28	
Nantwich —	10454	10220	1177	13	7	182	17.8	151	14.8	—	—	—	—	—	—	3	16	2	11	1	5	
Neston —	11836	12080	8495	9	5	224	18.5	121	10.0	—	—	—	1	1	.08	4	18	4	18	4	18	
Northwich —	19374	19440	2636	16	7	290	14.9	234	12.0	—	—	—	1	1	.05	5	17	3	10	3	10	
Runcorn —	26035	26120	3127	15	9	490	18.8	281	10.8	—	—	—	3	3	.11	8	16	7	14	7	14	
Sandbach —	9856	9910	3716	7	10	139	14.0	122	12.3	—	—	—	—	—	—	4	29	4	29	2	14	
Wilmslow —	21393	21470	7691	20	7	425	19.8	255	11.9	—	—	—	1	1	.05	7	16	6	14	4	9	
Winsford —	12738	12800	7094	6	13	211	16.5	143	11.2	—	—	—	1	1	.08	5	24	4	19	3	14	
Wirral —	21847	21590	5639	11	7	383	17.7	288	13.3	—	—	—	2	2	.09	5	13	4	10	3	8	
Total Urban Districts	343730	344610	97405	189	121	6098	17.7	4151	12.0	—	—	1	19	20	.06	118	19	94	15	75	12	
RURAL DISTRICTS																						<i>Vacant</i> Dr. W. J. Birchall Dr. L. Rich Dr. T. W. Brindle Dr. L. Rich Dr. R. K. Hay Dr. W. S. Slater Dr. J. L. Patterson Dr. W. J. Birchall Dr. W. Turner
Bucklow —	17290	18080	46103	21	6	343	19.0	139	7.7	—	—	—	3	3	.17	5	15	2	6	2	6	
Chester —	28334	28170	43829	11	11	476	16.9	400	14.2	—	—	—	1	1	.04	10	21	7	15	6	13	
Congleton —	14101	14250	38704	5	7	191	13.4	235	16.5	—	—	—	—	—	—	1	5	1	5	1	5	
Disley —	3172	3170	2208	2	1	40	12.6	42	13.2	—	—	—	1	1	.32	—	—	—	—	—	—	
Macclesfield —	23361	23170	72533	5	6	362	15.6	252	10.9	—	—	—	1	1	.04	5	14	4	11	3	8	
Nantwich —	27666	27920	100844	9	4	384	13.8	311	11.1	—	—	—	3	3	.11	6	16	2	5	1	3	
Northwich —	39512	39640	57014	26	13	661	16.7	425	10.7	—	—	—	3	3	.08	12	18	6	9	5	8	
Runcorn —	39950	39920	45552	24	13	655	16.4	466	11.7	—	—	—	1	1	.03	8	12	6	9	4	6	
Tarvin —	14481	14500	62593	6	5	218	15.0	172	11.9	—	—	—	—	—	—	5	23	5	23	5	23	
Tintwistle —	1436	1450	11855	—	—	19	13.1	14	9.7	—	—	—	—	—	—	1	53	1	53	1	53	
Total Rural Districts	209403	210270	481235	109	66	3349	15.9	2456	11.7	—	—	—	13	13	.06	53	16	34	10	28	8	
Administrative County	921212	923630	621825	580	323	16034	17.4	11251	12.2	2	—	1	52	55	.06	282	18	207	13	173	11	

